



August 8, 2022

Mr. Ralph Ruffolo
2926-30 75th St.
Kenosha, WI 53143

Sent via: rjr.ruffolo@gmail.com

**Subject: Phase II Environmental Site Assessment Report
Ruffolo Property, 2926 and 2930 75th St., Kenosha, WI 53143**

Dear Mr. Ruffolo:

Attached are the methods of investigation and results of a Phase II Environmental Site Assessment (ESA) of a property at 2926/2930 75th St. in Kenosha, WI (Site) on July 8, 2022 (Figure 1). The purpose of the investigation was to evaluate the *Recognized Environmental Conditions (RECs)* identified in a Phase I ESA report for the Site completed by DAI Environmental, Inc. on June 9, 2022.

The Phase I ESA report identified the following RECs at the Site:

- *Prior use as a gasoline filling station with unknown status of three (3) gasoline underground storage tanks.*
- *Potential releases of petroleum products, solvents, and other vehicle repair associated chemicals from neighboring properties.*

OBJECTIVES

The objectives of the Phase II ESA were to:

1. Evaluate the presence/absence of USTs and/or identify their approximate locations on the eastern side of the Site,
2. Confirm the absence/presence of petroleum impacts related to the past use of the USTs, and
3. Evaluate potential vapor intrusion (VI) issues inside the building, which is currently leased for use as a bike and skateboard shop.

FIELD INVESTIGATION METHODS

The field investigation activities, completed on July 8, 2022, included use of a ground penetrating radar (GPR) to evaluate the UST area, sampling of unconsolidated deposits and groundwater using a direct push drilling rig, and collecting sub-slab VI samples from inside the building.

GPR Survey. The GPR consisted of a cart-mounted Model LMX-100 with a 250 mhz antenna. It was wheeled by the operator, across the area where a potential UST system may have been buried, on the east side of the Site. The GPR unit transmits pulses of ultra-high frequency radio waves into the ground through a transducer. The radio waves contact buried objects with differing electrical conductivities and dielectric constants, and returns signals to the surface. The GPR collected the returned signals, the travel times of the signals were processed, and the voltage peaks, which were plotted on a screen, were reviewed by the operator, who interpreted the real-time responses. The likely locations of the former USTs are provided on the attached Figure 2.

Soil/Groundwater Sampling: A track-mounted direct push drill rig (Geoprobe®) was used to continuously collect unconsolidated deposit samples from five (5) borings advanced in the area where a UST system was likely to have been buried in the past. The borings were drilled to approximately 15 feet below grade (bg), to investigate potential impacts on-Site from the above-stated RECs. The borings were advanced in the general area of the former UST excavation identified in the GPR survey, and were generally placed in each cardinal direction from the UST excavation and through the approximate center of the former UST excavation. The boring locations are provided on Figure 2. Boring logs are provided in Attachment A.

Unconsolidated samples were collected continuously, and screened in the field at 2.5-foot intervals, using a photoionization detector (PID) to assess the presence of volatile organic compounds (VOCs). One soil sample was collected from each boring, and sent for analysis by a Wisconsin-certified laboratory, for petroleum volatile organic compounds (PVOCs), polycyclic aromatic hydrocarbons (PAHs), and lead. Samples for laboratory analysis were generally collected from the sampled depth with the highest PID response, except boring SB-1, where the sample was collected from just above the observed water table.

Based on the PID responses and noticeable odors in soil, one temporary groundwater monitoring well was installed south of the UST excavation (SB-3) to collect a groundwater sample. The temporary well consisted of small diameter PVC pipe with a 5-foot-long well screen. A groundwater sample for laboratory analysis was collected from the well, using a GeoTech battery-operated peristaltic pump attached to clean, new ¼-inch-diameter polyethylene tubing, which was inserted into the well. The groundwater sample was analyzed by a Wisconsin-Certified laboratory for PVOCs, PAHs, and lead (total). After completion of sample collection, the temporary well materials were removed, and the well and other borings abandoned with bentonite and capped with like surface materials.

according to Wisconsin Administrative Code (WAC) NR141. Boring abandonment forms are also provided in Attachment A.

Sub-Slab Soil Vapor Intrusion Sample Collection: Two (2) sub-slab VI samples were collected from inside the west side of the building to address the above listed *RECs*. The VI samples were analyzed by a Wisconsin-Certified laboratory for VOCs by Compendium Method TO-15.

The samples were collected by using a hammer drill to drill a 5/8-inch-diameter hole through the concrete floor into the subgrade granular materials. Stainless-steel vapor pins, manufactured by Cox-Colvin & Associates, Inc., were driven into the holes. Silicon sleeves were attached to the vapor pins to form air-tight seals between the pins and the concrete. The integrity of the vapor pin seals was checked by surrounding them with 2-inch-diameter PVC couplings secured to the concrete with modeling clay, and by adding distilled water to the dams created by the couplings. The water levels inside the PVC couplings were observed for leaks for approximately 30 minutes. The water levels remained unchanged, indicating that the seals were intact.

The Summa sample collection canisters were attached to a barbed fitting at the top of the vapor pins. The integrity of the fittings between the Summa canisters and the sample ports were checked by inducing a vacuum in the line of 50 to 100 inches of water. The fittings held vacuum for one minute and passed the vacuum test. The vapor samples were collected in the 6-liter (L) Summa canisters at an approximate rate of 200 milliliters per minute, over 30 minutes. The VI sampling locations are depicted on Figure 2.

RESULTS AND DISCUSSION

GPR Survey. According to the GPR professional, buried objects, such as a UST or piping, were not detected. The subsurface appeared to be disturbed, and showed evidence of previously filling in the area where USTs were identified in a Phase I ESA report. An outline of the previously disturbed ground is shown on Figure 2.

A magnetometer survey was not completed, as there were no observable metallic objects related to USTs, including vent, fill, or other piping for the magnetometer to connect to and impart an electrical current.

Geology/ Hydrogeology. The unconsolidated materials observed in the five (5) borings advanced at the Site included approximately one foot of loose gravel, covering between 4 and 8 feet of fill. The fill consisted of topsoil, clay or sand containing brick fragments, gravel, and asphalt. The thickest layer of fill was observed where the USTs were likely to have been previously buried. Below the fill, the native unconsolidated materials consisted of sand. Wet samples, generally indicating the presence of the water table, were observed between 6 and 8 feet bg.

PID responses were observed in unconsolidated samples collected deeper than 5 feet bg. Sample SB-3D, collected from boring SB-3 at a depth of 7.5 to 10 feet bg, had a PID response of approximately 1,500 parts per million (ppm). In relative perspective, PID responses in the four (4) remaining samples ranged from 0 to 90.5 ppm. This response pattern suggests that the petroleum migrated south from the former UST basin.

Soil and Groundwater Results. Five (5) unconsolidated samples and one groundwater sample were collected from the Site. The samples were collected from borings drilled around, and in the area, where USTs were previously mapped on the Site.

Of the five (5) unconsolidated samples submitted for laboratory analyses of PVOCs, PAHs and lead, only one sample, SB-3D, contained petroleum compound concentrations exceeding the Wisconsin Administrative Code (WAC) ch. NR 720 Soil-to-Groundwater Residual Contaminant Levels (RCLs). The results are summarized in Table 1.

Compounds exceeding the Soil-to Groundwater RCLs included 1,2,4-and 1,3,5-trimethylbenzene (combined), ethylbenzene, xylenes, total, naphthalene, and lead. The laboratory analytical report for unconsolidated samples is provided in Attachment B.

The sample results demonstrate that unconsolidated deposits and fill south of the UST excavation are contaminated at levels that exceeded ch. NR 720 Soil-to-Groundwater RCLs for select petroleum compounds and lead. The compounds detected suggest the USTs likely contained leaded gasoline, diesel, or both sometime during their operation. The magnitude and extent of petroleum impacts to the unconsolidated deposits south of the former UST excavation have not been determined by this investigation.

A groundwater sample, collected from the temporary well installed in boring SB-3, contained chrysene and lead at concentrations that exceeded their respective WAC ch. NR 140 Groundwater Quality Enforcement Standard (ES) (Table 2). The sample also contained 1,2,4-and 1,3,5-trimethylbenzene (combined) and naphthalene, at concentrations that exceeded their respective WAC ch. NR 140 Groundwater Quality Preventive Action Limits (PALs) standards. These results generally mirror the unconsolidated materials results, and demonstrate that groundwater has been contaminated by the past use of the USTs. The laboratory analytical report for groundwater is provided in Attachment B.

Sub-Slab Soil VI Results. The laboratory sub-slab VI analytical results summarized in Table 3 indicate that several VOCs are present in soil vapor beneath and/or near the building. Trichloroethene (TCE), a common degreasing compound, was the only compound detected at concentrations exceeding the Wisconsin Small Commercial Vapor Risk Screening Level (VRSL) - Sub-Slab. TCE was detected at 880 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in sample V-1 and at 600 $\mu\text{g}/\text{m}^3$ in sample V-2. The TCE concentrations exceeded the Small Commercial VRSL by factors of 2 to 3 times over the 290 $\mu\text{g}/\text{m}^3$ standard. The laboratory analytical report is provided in Attachment C.

The detection of TCE at concentrations exceeding the VRSL indicates TCE is likely affecting air quality within the building. Because the TCE concentrations were similar in both samples, the source and/or extent of the TCE beneath the building could not be determined by this investigation.

TCE concentrations in the subgrade (either in unsaturated soil and/or groundwater) can be controlled by an active depressurization system, like the way radon gas is controlled. Typically, it involves using either an existing sump crock or installing a suction pit in conjunction with a sub-slab depressurization system. This type of interim action system uses energized fan(s) or blower(s) to create a negative pressure gradient between the soil gas below a building and the indoor air. The negative pressure gradient prevents advection of soil gas into the building. The process also removes a small amount of contaminant vapor mass, which can lower the potential for future chemical diffusion into the building.

CONCLUSIONS

- The GPR survey identified a previously excavated area on the east side of the Site, where USTs were mapped in the past. The GPR operator indicated the presences of dissimilar materials, which showed that the area had been disturbed in the past and filled with materials not like the native sand deposits.
- The deposits on the east side of the Site consist of one foot of loose gravel covering between 4 and 8 feet of topsoil, clay or sand fill containing brick fragments, gravel, and asphalt overlying native sand. Groundwater is generally found between 6 and 8 feet bg.
- Sampling of unconsolidated materials demonstrates a petroleum release has occurred at the Site near where the USTs were previously used. Compounds exceeding the WAC ch. NR720 Soil-to-Groundwater RCLs include 1,2,4-trimethylbenzene/1,3,5-trimethylbenzene (combined), ethylbenzene, xylenes, naphthalene, and lead.
- Groundwater sampling results confirm that a petroleum release has occurred at or near the Site. Compounds in groundwater exceeding the WAC ch. NR140 Groundwater Quality ESs included chrysene and lead, and the WAC ch. NR140 PALs included 1,2,4-trimethylbenzene/1,3,5-trimethylbenzene (combined), and naphthalene. These compounds were generally the same compounds identified in nearby unconsolidated deposits and fill.
- Sub-slab VI sampling demonstrates a release of TCE has occurred at or near the Site building. TCE has been identified at concentrations exceeding the WI Small Commercial VRSL Sub-Slab limits in both samples analyzed.

TCE is a common parts degreaser used in automobile repair facilities, and as a metal cleaner in various industries. It was present at concentrations exceeding the non-industrial VRSL by a factor of 2 to 3 times. The source of the TCE could not be determined by the investigation.

RECOMMENDATIONS

The following are recommendations are made for the Site:

- Report the findings of this report to the WDNR, as required under the Wisconsin Statutes 292.11 (2), informally known as the “Spills Law.” The law requires a person who possesses or controls a hazardous substance or who causes the discharge of a hazardous substance to notify the Department immediately of any discharge.
- Identify the magnitude and extent of soil and groundwater contamination identified near the former UST system on the east side of the Site. This requires a Site Investigation meeting the requirements of ch. NR700 to identify the source, magnitude, and extent of soil and groundwater contamination.
- Evaluate the potential source(s) of the TCE to the Site building. A recent Phase I ESA has identified several nearby potential users of TCE, including the Site.
- Install a sub-slab depressurization system to limit TCE vapors from entering the breathing space in the building. Because TCE was identified at concentrations over three times the small commercial VRSL standard, we recommend providing relief to the tenants as soon as possible. Such actions require the installation of sub-slab depressurization equipment and the consent of the WDNR. This action is considered a long-term continuing obligation to the property, and will operate in perpetuity until the TCE impacts have been remediated, regardless of the property owner.

PHASE II ENVIRONMENTAL SITE ASSESSMSNT REPORT2926 and 2930 75th St., Kenosha, WI 53143

August 8, 2022; Page 7 of 7

Thank you for allowing us the opportunity to prepare this report. If you have any questions, please contact us at 262-250-1226 or rthomson@hyde-env.com or lcranley@hyde-env.com.

Sincerely,
HYDE ENVIRONMENTAL, INC.



Logan Cranley
Environmental Scientist



Robert B. Thomson, P.G.
Geologist

RBT/lc

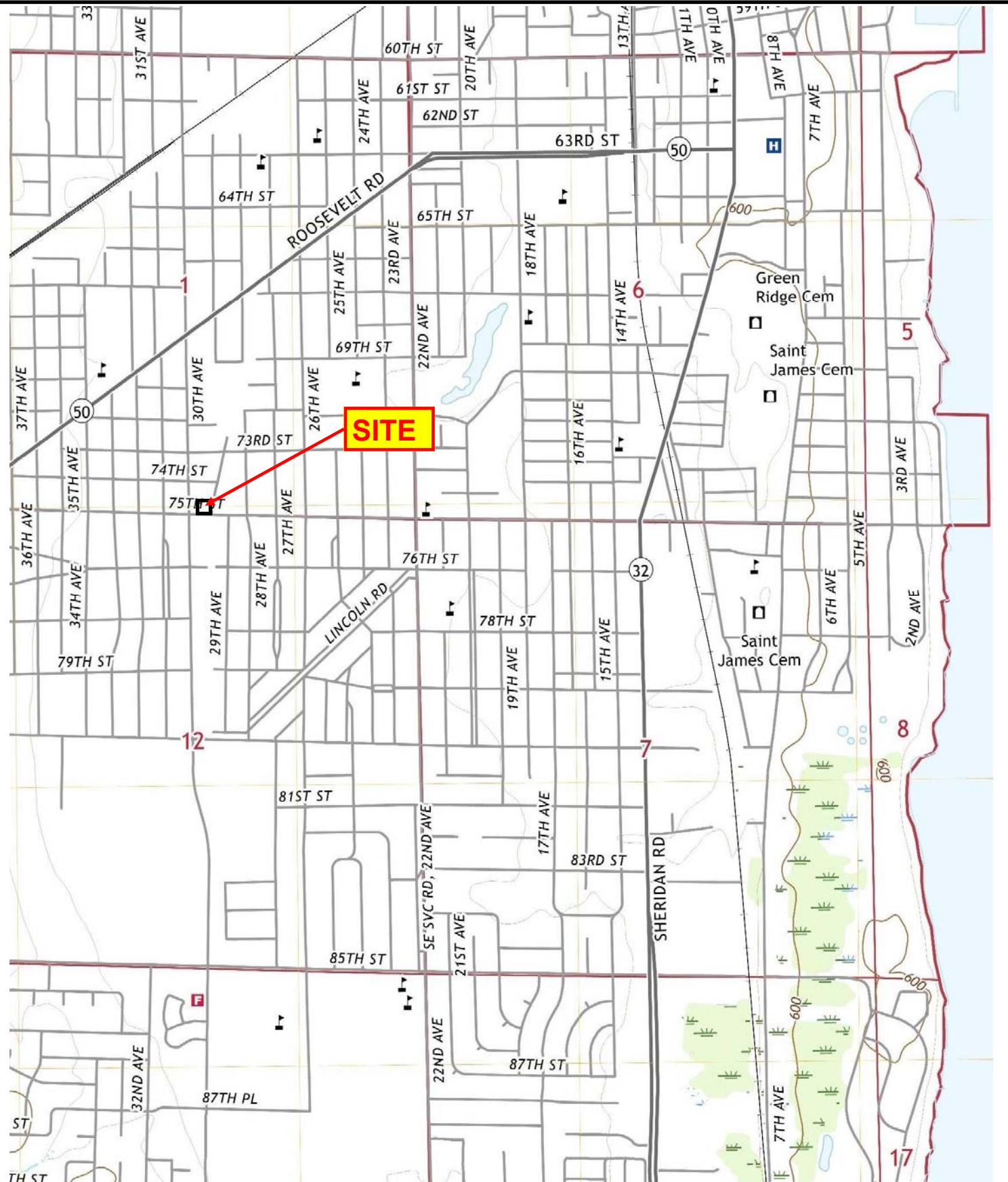
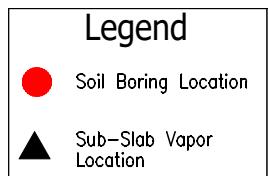
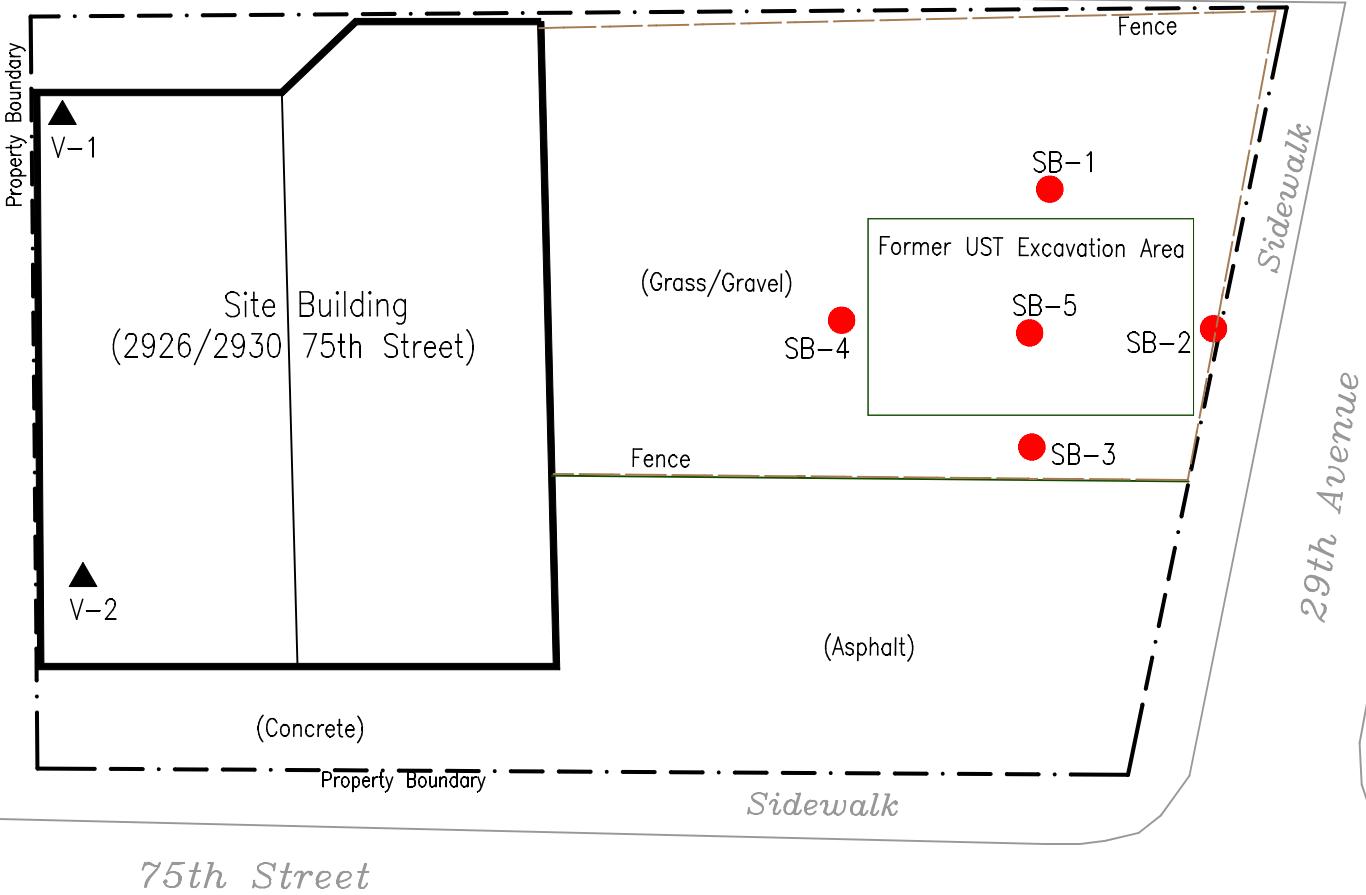
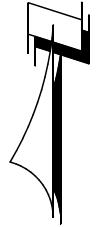


FIGURE 1
SITE LOCATION MAP

Ruffolo Property
2926/2930 75th St.
Kenosha WI



0 30'
SCALE

HEI
HYDE ENVIRONMENTAL, INC.

Figure 2
SITE LAYOUT
Ruffolo Property
2926 and 2930 75th Street
Kenosha, WI

TABLE 1. SOIL RESULTS SUMMARY
2926 and 2930 75th Street, Kenosha, WI
 Sampled July 8, 2022

Parameters	WI Ch. NR 720 RCLs			SB-1C	SB-2D	SB-3D	SB-4C	SB-5D
	Industrial Direct Contact Threshold (mg/kg)	Non-Industrial Direct Contact Threshold (mg/kg)	Soil to Ground-water RCL (mg/kg)					
			Depth (ft.):	5-7.5	7.5-10	7.5-10	5-7.5	7.5-10
			PID Reading (ppm):	0.0	3.1	1,498.4	0.0	90.5
Petroleum Volatile Organic Compounds (PVOCs)(mg/kg)								
1,2,4-Trimethylbenzene	219	219	1.3787	<0.022	<0.027	1.4	<0.026	<0.027
1,3,5-Trimethylbenzene	182	182		<0.024	<0.029	3.5	<0.028	<0.028
Benzene	7.07	1.6	0.0051	<0.0091	<0.011	<0.039	<0.011	<0.011
Ethylbenzene	35.4	8.02	1.57	<0.011	<0.014	1.8	<0.013	<0.014
Methyl tert-butyl ether	282	63.8	0.027	<0.025	<0.03	<0.11	<0.029	<0.03
Toluene	818	818	1.107	<0.0092	<0.011	0.11	<0.011	<0.011
Xylenes, Total	260	260	3.96	0.014 J B	0.017 J B	17.0 B	<0.016	<0.016
Polycyclic Aromatic Hydrocarbons (PAHs) (mg/kg)								
1-Methylnaphthalene	72.7	17.6	NS	<0.013	0.22 J	13.0	<0.026	<0.028
2-Methylnaphthalene	3,010	239	NS	<0.0098	<0.021	8.50	<0.019	<0.021
Acenaphthene	45,200	3,590	NS	<0.0096	<0.021	<0.51	<0.019	<0.021
Acenaphthylene	NS	NS	NS	<0.007	<0.015	0.61 J	<0.014	<0.015
Anthracene	100,000	17,900	196.95	<0.0089	<0.02	0.56 J	<0.018	<0.019
Benzo[a]anthracene	20.8	1.14	NS	<0.0072	<0.016	<0.38	0.014 J	<0.015
Benzo[a]pyrene	2.11	0.115	0.47	<0.010	<0.023	<0.55	<0.02	<0.022
Benzo[b]fluoranthene	21.1	1.15	0.48	<0.012	<0.025	<0.61	<0.023	<0.025
Benzo[g,h,i]perylene	NS	NS	NS	<0.017	<0.038	<0.92	<0.034	<0.037
Benzo[k]fluoranthene	211	11.5	NS	<0.016	<0.034	<0.84	<0.031	<0.034
Chrysene	2,110	115	0.144	<0.015	<0.032	<0.78	<0.029	<0.031
Dibenz(a,h)anthracene	2.11	0.115	NS	<0.010	<0.023	<0.55	<0.02	<0.022
Fluoranthene	30,100	2,390	88.88	<0.0099	<0.022	0.69 J	0.03 J	<0.021
Fluorene	30,100	2,390	14.83	<0.0075	<0.016	0.89 J	<0.015	<0.016
Indeno[1,2,3-cd]pyrene	21.1	1.15	NS	<0.014	<0.03	<0.74	<0.027	<0.03
Naphthalene	24.1	5.52	0.658	<0.0082	0.035 J	12.0	<0.016	<0.018
Phenanthrene	NS	NS	NS	<0.0074	<0.016	1.90 J	0.016 J	<0.016
Pyrene	22,600	1,790	54.55	<0.011	<0.023	1.50 J	0.029 J	<0.023
Lead (mg/kg)	800	400	27	5.5	5.4	55	5.8	5.9

Notes:

Bold and italics value exceeds Soil-to-Groundwater RCL
 Underlined value exceeds Non-Industrial Direct Contact RCL
 NS = No standard
 < = less than

HYDE ENVIRONMENTAL, INC.

Page 1 of 1

TABLE 2. GROUNDWATER RESULTS SUMMARY
Ruffolo,
2926 and 2930 75th Street, Kenosha, WI
 Sampled July 8, 2022

Parameters (ug/L)	WI Ch. NR140 Groundwater Quality Health Standards		Temporary Well
	PAL	ES	
Volatile Organic Compounds (VOCs)			
1,2,4-Trimethylbenzene (combined)	96	480	250
1,3,5-Trimethylbenzene (combined)			
Benzene	0.5	5	<0.73
Ethylbenzene	140	700	44
Methyl tert-butyl ether	12	60	<2.0
Toluene	160	800	3.1
Xylenes, Total	400	2,000	240
Polynuclear Aromatic Hydrocarbons (PAHs)			
1-Methylnaphthalene	--	--	25 *1
2-Methylnaphthalene	--	--	16 *1
Acenaphthene	--	--	0.58 J *1
Acenaphthylene	--	--	0.83 *1
Anthracene	600	3,000	0.45 J *- *1
Benzo(a)anthracene	--	--	0.28 *- *1
Benzo(a)pyrene	0.02	0.2	<0.076 *- *1
Benzo(b)fluoranthene	0.02	0.2	<0.062 *- *1
Benzo(g,h,i)perylene	--	--	<0.29 *1
Benzo(k)fluoranthene	--	--	<0.049 *- *1
Chrysene	0.02	0.2	0.51 *- *1
Dibenz(a,h)anthracene	--	--	<0.039 *- *1
Fluoranthene	80	400	1.2
Fluorene	80	400	1.1 *1
Indeno(1,2,3-cd)pyrene	--	--	<0.057 *1
Naphthalene	10	100	30 *1
Phenanthrene	--	--	2.6 *- *1
Pyrene	50	250	2.5 *- *1
Metals - Total (mg/L)			
Lead	1.5	15	71

Notes:

Only detected compounds shown. See lab report for complete data and flags.

Bold values exceed Preventive Action Limit (PAL)

Italicized values exceeds Enforcement Standard (ES)

TABLE 3
SUB-SLAB VAPOR SAMPLING SUMMARY
Ruffolo Property
Kenosha, WI

TO-15 - Volatile Organic Compounds	Basis of Regional Screening Level (RSL)	WI Residential Vapor Risk Screening Level (VRSL) (Sub-Slab)	WI Small Commercial Vapor Risk Screening Level (VRSL) (Sub-Slab)	V-1	V-2
		(µg/m ³)	(µg/m ³)		
Acetone	n	--	--	240	360
Benzene	c	120	520	<2.4	16
2-Butanone (MEK)	n	170,000	730,000	<5.0	4.6 J
Carbon disulfide	n	24,000	100,000	<4.0	4.4 J
Chloroform	c	41	180	4.1 J	5.3
Cyclohexane	n	210,000	880,000	<1.2	20
Ethylbenzene	c	370	1,600	<4.3	14
n-Hexane	n	24,000	100,000	32	41
Isopropyl alcohol	n	7,000	29,200	79 J	99
Isopropylbenzene	n	14,000	58,000	<1.8	1.1 J
4-Methyl-2-pentanone (MIBK)	n	100,000	440,000	<7.8	120
Methylene Chloride	n	21,000	88,000	<5.9	4.6 J
Methyl tert-butyl ether	c	3,700	16,000	5.6 J	4.3
Tetrachloroethene (PCE)	n	1,400	5,800	4.4 J	2.8 J
1,1,1-Trichloroethane (1,1,1-TCA)	n	170,000	730,000	7.8 J	7.5
Toluene	n	170,000	730,000	8.4	25
Trichloroethene (TCE)	n	70	290	880	600
1,2,4-Trimethylbenzene	n	2,100	8,700	5.9 J	15
1,3,5-Trimethylbenzene	n	2,100	8,700	<2.2	5.0
Xylene (total)	n	3,500	15,000	<11	66
m-Xylene & p-Xylene	n	3,500	15,000	10 J	49
o-Xylene	n	3,500	15,000	<4.1	19

Notes:

(*) Denotes WI Quick Look-Up Table, Vapor Risk Screening Levels (VRSLs) (Nov 2017, Updated February 2022)

Not all analyzed compounds shown. See lab report for complete results and data flags

< = less than laboratory MDL

µg/m³ = Micrograms per cubic meter

-- = No standard set

c= Cancer n = Noncancer

J = Estimated value, reported value is between the laboratory reporting limit and laboratory method detection limit (MDL)



PHASE ENVIRONMENTAL SITE ASSESSMENT REPORT

2926 and 2930 75th St., Kenosha, WI 53143

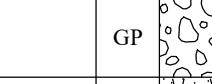
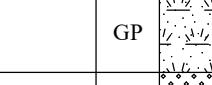
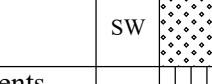
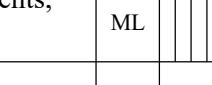
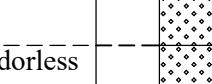
August 8, 2022

ATTACHMENT A

**WDNR Boring Logs (Form 4400-122) and
Well/Drillhole/Borehole & Sealing Report (Form 3300-005)**

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Ruffolo Ph2			License/Permit/Monitoring Number . .		Boring Number SB-1						
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Bendorf Probe Technologies			Date Drilling Started 7/8/2022	Date Drilling Completed 7/8/2022	Drilling Method Geoprobe						
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.0 inches						
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N 1/4 of SE 1/4 of Section 1, T 1 N, R 22 E			Lat 42° 33' 59.0" Long 87° 50' 41.0"	Local Grid Location □ N □ E Feet □ S Feet □ W							
Facility ID		County Kenosha	County Code 30	Civil Town/City/ or Village Kenosha, WI							
Number and Type and Type Recovered (in)	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit		Soil Properties				RQD/ Comments	
				U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content		Liquid Limit
1	60/ 60		1 2 3 4 5 6 7 8 9 10	Gravel	GP		0 0 0 0 0 0 0 0 0 0				
				Topsoil fill, with gravel and brick fragments, black	GP						
				Fill sand, brown, moist	SW						
				Silt fill with gravel and brick fragments, black, moist, odorless	ML						
				Sand, coarse, dark brown, moist, odorless	SW						
2	60/ 60		1 2 3 4 5 6 7 8 9 10	Sand, very fine, light brown, wet, odorless	SW						
				Sand, very fine, light brown, wet, odorless	SW						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Hyde Environmental, Inc. W175N11163 Stonewood Dr. #110 Germantown, WI 53022-6501	Tel: 262-250-1226 Fax:
-----------	-------------------------------------------------------------------------------------------------	---------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Ruffolo Ph2			License/Permit/Monitoring Number . .		Boring Number SB-2						
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Bendorf Probe Technologies			Date Drilling Started 7/8/2022	Date Drilling Completed 7/8/2022	Drilling Method Geoprobe						
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.0 inches						
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N 1/4 of SE 1/4 of Section 1, T 1 N, R 22 E			Lat 42° 33' 59.0" Long 87° 50' 41.0"	Local Grid Location □ N □ E Feet □ S Feet □ W							
Facility ID		County Kenosha	County Code 30	Civil Town/City/ or Village Kenosha, WI							
Number and Type and Recovery (in)	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit		Soil Properties				RQD/ Comments	
				U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content		Liquid Limit
1	60/ 60		1 2 3 4 5	Gravel	GP		0 0 0 0 3.1				
				Topsoil fill with gravel, black	GP						
				Sand fill, brown, moist	SW						
				Clay fill with brick fragments, black, moist, odorless	CL						
				Sand, fine, brown, damp, odorless	SW						
2	60/ 60		6 7 8 9 10	Sand, very fine, brown, wet	SW						
				Sand, very fine, grey, wet, slight petroleum odor	SW						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Hyde Environmental, Inc. W175N11163 Stonewood Dr. #110 Germantown, WI 53022-6501	Tel: 262-250-1226 Fax:
-----------	-------------------------------------------------------------------------------------------------	---------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Ruffolo Ph2			License/Permit/Monitoring Number . .		Boring Number SB-3							
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Bendorf Probe Technologies			Date Drilling Started 7/8/2022	Date Drilling Completed 7/8/2022	Drilling Method Geoprobe							
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.0 inches							
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N 1/4 of SE 1/4 of Section 1, T 1 N, R 22 E			Lat 42° 33' 59.0" Long 87° 50' 41.0"	Local Grid Location □ N □ E Feet □ S Feet □ W								
Facility ID		County Kenosha	County Code 30	Civil Town/City/ or Village Kenosha, WI								
Number and Type and Recovery (in)	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit		Soil Properties				RQD/ Comments		
				U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content		Liquid Limit	Plasticity Index
1	60/ 60		1 2 3 4 5 6 7 8 9 10	Gravel	GP		0 0 613.5 1498.4	0	0	0	0	0
				Topsoil fill with gravel, black	GP							
				Sand fill with gravel and brick, brown, moist, odorless	SW							
2	60/ 60		5 6 7 8 9 10	Sand, fine, with brick fragments, grey, moist, strong petroleum odor	SW		613.5 1498.4	0	0	0	0	0
				Sand, very fine, wet, very strong petroleum odor	SW							

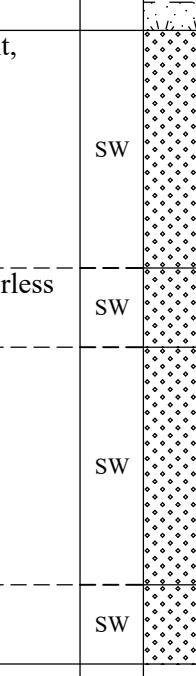
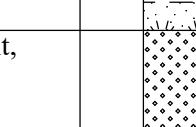
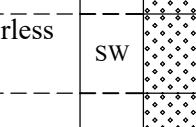
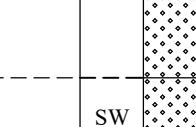
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Hyde Environmental, Inc. W175N11163 Stonewood Dr. #110 Germantown, WI 53022-6501	Tel: 262-250-1226 Fax:
-----------	-------------------------------------------------------------------------------------------------	---------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Ruffolo Ph2			License/Permit/Monitoring Number . .		Boring Number SB-4						
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Bendorf Probe Technologies			Date Drilling Started 7/8/2022	Date Drilling Completed 7/8/2022	Drilling Method Geoprobe						
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.0 inches						
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N 1/4 of SE 1/4 of Section 1, T 1 N, R 22 E			Lat 42° 33' 59.0" Long 87° 50' 41.0"	Local Grid Location □ N □ E Feet □ S Feet □ W							
Facility ID		County Kenosha	County Code 30	Civil Town/City/ or Village Kenosha, WI							
Number and Type and Recovery (in)	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit		Soil Properties				RQD/ Comments	
				U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content		Liquid Limit
1	60/ 60		1	Gravel			0				
			2	Topsoil fill with gravel, black							
			3	Sand fill with trace gravel and asphalt, brown, moist, odorless							
			4								
			5	Sand, coarse, dark brown, moist, odorless							
			6	Sand, very fine, brown, wet							
			7								
			8								
			9	Sand, very fine, grey, wet, odorless							
			10								
I hereby certify that the information on this form is true and correct to the best of my knowledge.											
Signature			Firm Hyde Environmental, Inc. W175N11163 Stonewood Dr. #110 Germantown, WI 53022-6501				Tel: 262-250-1226 Fax:				

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Ruffolo Ph2			License/Permit/Monitoring Number . .		Boring Number SB-5									
Boring Drilled By: Name of crew chief (first, last) and Firm Dan Bendorf Probe Technologies			Date Drilling Started 7/8/2022	Date Drilling Completed 7/8/2022	Drilling Method Geoprobe									
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.0 inches									
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N 1/4 of SE 1/4 of Section 1, T 1 N, R 22 E			Lat 42° 33' 59.0" Long 87° 50' 41.0"	Local Grid Location □ N □ E Feet □ S Feet □ W										
Facility ID		County Kenosha	County Code 30	Civil Town/City/ or Village Kenosha, WI										
Number and Type and Type Recovered (in)	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit		U S C S GP	Graphic Log	Well Diagram	P/D/FID	Soil Properties				RQD/ Comments
				Compressive Strength	Moisture Content					Liquid Limit	Plasticity Index	P 200		
1	60/ 60		1	Gravel		SW		0						
			2	Sand fill, brown, trace gravel and crushed red brick,		SW		0						
			3	Sand fill with gravel, dark brown, trace red brick, moist, odorless		SW		0						
2	60/ 60		5	Sand, brown, very fine, moist, odorless		SW		0						
			7	Sand, very fine, brown, wet odorless		SW		0						
			8	Sand, very fine, grey, wet, slight petroleum odor		SW		90.5						
			9			SW								
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Hyde Environmental, Inc. W175N11163 Stonewood Dr. #110 Germantown, WI 53022-6501	Tel: 262-250-1226 Fax:
-----------	-------------------------------------------------------------------------------------------------	---------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- | | | |
|-------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Drinking Water | <input type="checkbox"/> Watershed/Wastewater | <input type="checkbox"/> Remediation/Redevelopment |
| <input type="checkbox"/> Waste Management | <input checked="" type="checkbox"/> Other: Phase II Site Investigation | |

1. Well Location Information

County Dane	WI Unique Well # of Removed Well	Hicap #	
Latitude / Longitude (see instructions) 43.0458487 N -89.3440893 W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 NW or Gov't Lot #	1/4 NW 29	Section 7	Township N
Range E		10	<input type="checkbox"/> W

Well Street Address
1707 W. Broadway

Well City, Village or Town
Monona

Subdivision Name

Lot #

Reason for Removal from Service
sampling completed

WI Unique Well # of Replacement Well

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 07/13/2021
If a Well Construction Report is available, please attach.	

Construction Type:

Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.)
15

Lower Drillhole Diameter (in.)
2

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

Bentonite Chips

2. Facility / Owner Information

Facility Name WPS Health Solutions	Facility ID (FID or PWS)
License/Permit/Monitoring #	
Original Well Owner	
Present Well Owner	
Mailing Address of Present Owner 1707 W. Broadway	
City of Present Owner Monona	State WI
ZIP Code 53713	

4. Pump, Liner, Screen, Casing & Sealing Material

- | | |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Pump and piping removed? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Liner(s) removed? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Liner(s) perforated? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Screen removed? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Casing left in place? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Was casing cut off below surface? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Did sealing material rise to surface? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Did material settle after 24 hours? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| If yes, was hole retopped? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| If bentonite chips were used, were they hydrated with water from a known safe source? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |

Required Method of Placing Sealing Material

- | | |
|-------------------------------------------------------------------------|-------------------------------------------------|
| <input type="checkbox"/> Conductor Pipe-Gravity | <input type="checkbox"/> Conductor Pipe-Pumped |
| <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) | <input type="checkbox"/> Other (Explain): _____ |

Sealing Materials

- | | |
|----------------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Sand-Cement (Concrete) Grout | <input checked="" type="checkbox"/> Bentonite Chips |
| For Monitoring Wells and Monitoring Well Boreholes Only: | |
| <input type="checkbox"/> Bentonite Chips | <input type="checkbox"/> Bentonite - Cement Grout |
| <input type="checkbox"/> Granular Bentonite | <input type="checkbox"/> Bentonite - Sand Slurry |

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
0	15	1/4 Sack	

6. Comments

SB-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing On-Site Environmental, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 07/13/2021	DNR Use Only
Street or Route P.O. Box 280	Telephone Number (608) 837-8992	Comments	Date Received Noted By
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work C. Pagels (oversight) Date Signed

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- | | | |
|-------------------------------------------|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Drinking Water | <input type="checkbox"/> Watershed/Wastewater | <input type="checkbox"/> Remediation/Redevelopment |
| <input type="checkbox"/> Waste Management | <input checked="" type="checkbox"/> Other: Phase II ESA | |

1. Well Location Information

County Kenosha	WI Unique Well # of Removed Well	Hicap #				
Latitude / Longitude (see instructions) lat 42.566309 N long -87.844375 W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001			
1/4 SW or Gov't Lot #	1/4 SW 1	Section 1	Township 1 N	Range 22 E	<input checked="" type="checkbox"/> W	

Well Street Address
2926 75th St.

Well City, Village or Town
Kenosha

Subdivision Name

Reason for Removal from Service
sampling completed

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 07/08/2022
If a Well Construction Report is available, please attach.	

Construction Type:

Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.)
15

Lower Drillhole Diameter (in.)
2

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

Bentonite Chips	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
	0	15	1/4 Sack	

6. Comments

SB-3

7. Supervision of Work

DNR Use Only				
Name of Person or Firm Doing Filling & Sealing Probe Technologies, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 07/08/2022	Date Received	Noted By
Street or Route 7781 Pathfinder Lane	Telephone Number (262) 470-4768	Comments		
City West Bend	State WI	ZIP Code 53090	Signature of Person Doing Work L. Cranley (oversight)	Date Signed

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- | | | |
|-------------------------------------------|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Drinking Water | <input type="checkbox"/> Watershed/Wastewater | <input type="checkbox"/> Remediation/Redevelopment |
| <input type="checkbox"/> Waste Management | <input checked="" type="checkbox"/> Other: Phase II ESA | |

1. Well Location Information

County Kenosha	WI Unique Well # of Removed Well _____	Hicap # _____	
Latitude / Longitude (see instructions) lat 42.566309 N long -87.844375 W		Format Code <input type="checkbox"/> DD	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 SW or Gov't Lot #		Section 1	Township 1 N
		Range 22	E <input checked="" type="checkbox"/> W <input type="checkbox"/>

Well Street Address
2926 75th St.

Well City, Village or Town
Kenosha

Subdivision Name

Lot #

Reason for Removal from Service
sampling completed

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 07/08/2022		
<input type="checkbox"/> Water Well			
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.		

Construction Type:

Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.)
15

Lower Drillhole Diameter (in.)
2

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

Bentonite Chips

2. Facility / Owner Information

Facility Name Ruffolo Property			
Facility ID (FID or PWS)			
License/Permit/Monitoring #			
Original Well Owner			
Present Well Owner			
Mailing Address of Present Owner 2926 75th St.		City of Present Owner Kenosha	
		State WI	ZIP Code 53143

4. Pump, Liner, Screen, Casing & Sealing Material

- | | |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Pump and piping removed? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Liner(s) removed? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Liner(s) perforated? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Screen removed? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Casing left in place? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Was casing cut off below surface? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Did sealing material rise to surface? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Did material settle after 24 hours? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| If yes, was hole retopped? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| If bentonite chips were used, were they hydrated with water from a known safe source? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |

Required Method of Placing Sealing Material

- | | |
|-------------------------------------------------------------------------|-------------------------------------------------|
| <input type="checkbox"/> Conductor Pipe-Gravity | <input type="checkbox"/> Conductor Pipe-Pumped |
| <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) | <input type="checkbox"/> Other (Explain): _____ |

Sealing Materials

- | | |
|-------------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Sand-Cement (Concrete) Grout | <input checked="" type="checkbox"/> Bentonite Chips |
| <input type="checkbox"/> Granular Bentonite | <input type="checkbox"/> Bentonite - Cement Grout |
| | <input type="checkbox"/> Bentonite - Sand Slurry |

For Monitoring Wells and Monitoring Well Boreholes Only:

- | | |
|---------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Bentonite Chips | <input type="checkbox"/> Bentonite - Cement Grout |
| <input type="checkbox"/> Granular Bentonite | <input type="checkbox"/> Bentonite - Sand Slurry |

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
0	15	1/4 Sack	

6. Comments

SB-4

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Probe Technologies, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 07/08/2022		DNR Use Only
Street or Route 7781 Pathfinder Lane		Telephone Number (262) 470-4768	Comments	Date Received Noted By
City West Bend	State WI	ZIP Code 53090	Signature of Person Doing Work L. Cranley (oversight)	Date Signed

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- | | | |
|-------------------------------------------|---------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Drinking Water | <input type="checkbox"/> Watershed/Wastewater | <input type="checkbox"/> Remediation/Redevelopment |
| <input type="checkbox"/> Waste Management | <input checked="" type="checkbox"/> Other: Phase II ESA | |

1. Well Location Information

County	WI Unique Well # of Removed Well		Hicap #	
Kenosha				
Latitude / Longitude (see instructions)		Format Code	Method Code	
lat 42.566309		N	<input type="checkbox"/> DD	<input type="checkbox"/> GPS008
long -87.844375		W	<input type="checkbox"/> DDM	<input type="checkbox"/> SCR002
			<input type="checkbox"/> OTH001	
1/4 / 1/4 SW or Gov't Lot #	1/4 SW	Section	Township	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W
		1	1 N	22

Well Street Address
2926 75th St.

Well City, Village or Town
Kenosha

Subdivision Name

Lot #

Reason for Removal from Service
sampling completed

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)		
<input type="checkbox"/> Water Well	07/08/2022		
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.		

Construction Type:

Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)

15

1

Lower Drillhole Diameter (in.) Casing Depth (ft.)

2

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

Bentonite Chips

2. Facility / Owner Information

Facility Name	
Ruffolo Property	
Facility ID (FID or PWS)	
License/Permit/Monitoring #	
Original Well Owner	
Present Well Owner	
Mailing Address of Present Owner	
2926 75th St.	
City of Present Owner	State
Kenosha	WI
ZIP Code	
53143	

4. Pump, Liner, Screen, Casing & Sealing Material

- | | | | |
|---------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------|
| Pump and piping removed? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| Liner(s) removed? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| Liner(s) perforated? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| Screen removed? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| Casing left in place? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| Was casing cut off below surface? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| Did sealing material rise to surface? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| Did material settle after 24 hours? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| If yes, was hole retopped? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| If bentonite chips were used, were they hydrated with water from a known safe source? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |

Required Method of Placing Sealing Material

- | | |
|-------------------------------------------------------------------------|-------------------------------------------------|
| <input type="checkbox"/> Conductor Pipe-Gravity | <input type="checkbox"/> Conductor Pipe-Pumped |
| <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) | <input type="checkbox"/> Other (Explain): _____ |

Sealing Materials

- | | |
|-------------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Sand-Cement (Concrete) Grout | <input checked="" type="checkbox"/> Bentonite Chips |

For Monitoring Wells and Monitoring Well Boreholes Only:

- | | |
|---------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Bentonite Chips | <input type="checkbox"/> Bentonite - Cement Grout |
| <input type="checkbox"/> Granular Bentonite | <input type="checkbox"/> Bentonite - Sand Slurry |

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
0	15	1/4 Sack	

6. Comments

SB-5

7. Supervision of Work

			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
Probe Technologies, Inc.		07/08/2022		
Street or Route 7781 Pathfinder Lane		Telephone Number (262) 470-4768	Comments	
City West Bend	State WI	ZIP Code 53090	Signature of Person Doing Work L. Cranley (oversight)	Date Signed



PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

2926 and 2930 75th St., Kenosha, WI 53143

August 8, 2022

ATTACHMENT B

Soil and Groundwater Analytical Report



Environment Testing
America



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-219203-1
Client Project/Site: Ruffolo Phill

For:
Hyde Environmental, Inc.
W175 N11163 Stonewood Drive
Suite 110
Germantown, Wisconsin 53022

Attn: Robert Thomson

Authorized for release by:

7/26/2022 4:01:09 PM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	5
Method Summary	7
Sample Summary	8
Client Sample Results	9
Definitions	16
QC Association	17
Surrogate Summary	20
QC Sample Results	22
Chronicle	30
Certification Summary	33
Chain of Custody	34
Receipt Checklists	35

Case Narrative

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Job ID: 500-219203-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-219203-1**

Comments

No additional comments.

Receipt

The samples were received on 7/12/2022 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples but was not listed on the chain of custody. The trip blank was added to the COC by Eurofins personnel and logged in for analysis.

GC/MS VOA

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: SB-3 (500-219203-6).

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-3D (500-219203-3) and SB-3 (500-219203-6). Elevated reporting limits (RLs) are provided.

Method 8260B: The method blank for preparation batch <PrepBatch> contained o-Xylene above the reporting limit (RL). None of these samples associated with this method blank contained the target compound above the reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260B: Surrogate recovery for the following sample was outside control limits: SB-3 (500-219203-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: The method blank for analytical batch 500-666373 contained o-Xylene above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 8260B: The method blank for preparation batch 500-666336 and analytical batch 500-666373 contained o-Xylene above the reporting limit (RL). Associated sample was not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. SB-3D (500-219203-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-666092 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: SB-3D (500-219203-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: SB-3D (500-219203-3). Elevated reporting limits (RLs) are provided.

Method 8270D: The LCSD had nine spike recoveries and fifteen RPD values outside the QC limit. The LCS had acceptable spike recoveries for all analytes; therefore, no corrective action was required. (LCSD 500-665452/3-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Job ID: 500-219203-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Detection Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: SB-1C

Lab Sample ID: 500-219203-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	14	J B	31	14	ug/Kg	50	⊗	8260B	Total/NA
Lead	5.6		0.53	0.24	mg/Kg	1	⊗	6010C	Total/NA

Client Sample ID: SB-2D

Lab Sample ID: 500-219203-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	17	J B	38	17	ug/Kg	50	⊗	8260B	Total/NA
1-Methylnaphthalene	220	J	240	29	ug/Kg	1	⊗	8270D	Total/NA
Naphthalene	35	J	120	18	ug/Kg	1	⊗	8270D	Total/NA
Lead	5.4		0.54	0.25	mg/Kg	1	⊗	6010C	Total/NA

Client Sample ID: SB-3D

Lab Sample ID: 500-219203-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1400		270	95	ug/Kg	200	⊗	8260B	Total/NA
1,3,5-Trimethylbenzene	3500		270	100	ug/Kg	200	⊗	8260B	Total/NA
Ethylbenzene	1800		67	49	ug/Kg	200	⊗	8260B	Total/NA
Toluene	110		67	39	ug/Kg	200	⊗	8260B	Total/NA
Xylenes, Total	17000	B	130	59	ug/Kg	200	⊗	8260B	Total/NA
1-Methylnaphthalene	13000		5700	690	ug/Kg	50	⊗	8270D	Total/NA
2-Methylnaphthalene	8500		5700	520	ug/Kg	50	⊗	8270D	Total/NA
Acenaphthylene	610	J	2800	380	ug/Kg	50	⊗	8270D	Total/NA
Anthracene	560	J	2800	480	ug/Kg	50	⊗	8270D	Total/NA
Fluoranthene	690	J	2800	530	ug/Kg	50	⊗	8270D	Total/NA
Fluorene	890	J	2800	400	ug/Kg	50	⊗	8270D	Total/NA
Naphthalene	12000		2800	440	ug/Kg	50	⊗	8270D	Total/NA
Phenanthrene	1900	J	2800	400	ug/Kg	50	⊗	8270D	Total/NA
Pyrene	1500	J	2800	570	ug/Kg	50	⊗	8270D	Total/NA
Lead	55		0.53	0.25	mg/Kg	1	⊗	6010C	Total/NA

Client Sample ID: SB-4C

Lab Sample ID: 500-219203-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	14	J	110	14	ug/Kg	1	⊗	8270D	Total/NA
Fluoranthene	30	J	110	20	ug/Kg	1	⊗	8270D	Total/NA
Phenanthrene	16	J	110	15	ug/Kg	1	⊗	8270D	Total/NA
Pyrene	29	J	110	21	ug/Kg	1	⊗	8270D	Total/NA
Lead	5.8		0.61	0.28	mg/Kg	1	⊗	6010C	Total/NA

Client Sample ID: SB-5D

Lab Sample ID: 500-219203-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.9		0.61	0.28	mg/Kg	1	⊗	6010C	Total/NA

Client Sample ID: SB-3

Lab Sample ID: 500-219203-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	110		5.0	1.8	ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	140		5.0	1.3	ug/L	5		8260B	Total/NA
Ethylbenzene	44		2.5	0.92	ug/L	5		8260B	Total/NA
Toluene	3.1		2.5	0.76	ug/L	5		8260B	Total/NA
Xylenes, Total	240		5.0	1.1	ug/L	5		8260B	Total/NA
1-Methylnaphthalene	25	*1	1.5	0.23	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Hyde Environmental, Inc.

Job ID: 500-219203-1

Project/Site: Ruffolo Phll

Client Sample ID: SB-3 (Continued)

Lab Sample ID: 500-219203-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	16	*1	1.5	0.050	ug/L	1		8270D	Total/NA
Acenaphthene	0.58	J *1	0.77	0.24	ug/L	1		8270D	Total/NA
Acenaphthylene	0.83	*1	0.77	0.20	ug/L	1		8270D	Total/NA
Anthracene	0.45	J *- *1	0.77	0.26	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.28	*- *1	0.15	0.043	ug/L	1		8270D	Total/NA
Chrysene	0.51	*- *1	0.15	0.052	ug/L	1		8270D	Total/NA
Fluoranthene	1.2		0.77	0.35	ug/L	1		8270D	Total/NA
Fluorene	1.1	*1	0.77	0.19	ug/L	1		8270D	Total/NA
Naphthalene	30	*1	0.77	0.24	ug/L	1		8270D	Total/NA
Phenanthrene	2.6	*- *1	0.77	0.23	ug/L	1		8270D	Total/NA
Pyrene	2.5	*- *1	0.77	0.33	ug/L	1		8270D	Total/NA
Lead	0.071		0.0050	0.0027	mg/L	1		6010C	Total Recoverable

Client Sample ID: Trip Blank

Lab Sample ID: 500-219203-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo PhII

Job ID: 500-219203-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-219203-1	SB-1C	Solid	07/08/22 09:40	07/12/22 10:05
500-219203-2	SB-2D	Solid	07/08/22 10:00	07/12/22 10:05
500-219203-3	SB-3D	Solid	07/08/22 10:15	07/12/22 10:05
500-219203-4	SB-4C	Solid	07/08/22 10:30	07/12/22 10:05
500-219203-5	SB-5D	Solid	07/08/22 10:45	07/12/22 10:05
500-219203-6	SB-3	Water	07/08/22 11:15	07/12/22 10:05
500-219203-7	Trip Blank	Water	07/08/22 00:00	07/12/22 10:05

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: SB-1C

Date Collected: 07/08/22 09:40
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-1

Matrix: Solid

Percent Solids: 88.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	⊗	07/08/22 09:40	07/21/22 14:57	50
1,3,5-Trimethylbenzene	<24		62	24	ug/Kg	⊗	07/08/22 09:40	07/21/22 14:57	50
Benzene	<9.1		16	9.1	ug/Kg	⊗	07/08/22 09:40	07/21/22 14:57	50
Ethylbenzene	<11		16	11	ug/Kg	⊗	07/08/22 09:40	07/21/22 14:57	50
Methyl tert-butyl ether	<25		62	25	ug/Kg	⊗	07/08/22 09:40	07/21/22 14:57	50
Toluene	<9.2		16	9.2	ug/Kg	⊗	07/08/22 09:40	07/21/22 14:57	50
Xylenes, Total	14	JB		31	ug/Kg	⊗	07/08/22 09:40	07/21/22 14:57	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126	07/08/22 09:40	07/21/22 14:57	50
4-Bromofluorobenzene (Surr)	98		72 - 124	07/08/22 09:40	07/21/22 14:57	50
Dibromofluoromethane (Surr)	100		75 - 120	07/08/22 09:40	07/21/22 14:57	50
Toluene-d8 (Surr)	106		75 - 120	07/08/22 09:40	07/21/22 14:57	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		110	13	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
2-Methylnaphthalene	<9.8		110	9.8	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Acenaphthene	<9.6		53	9.6	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Acenaphthylene	<7.0		53	7.0	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Anthracene	<8.9		53	8.9	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Benzo[a]anthracene	<7.2		53	7.2	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Benzo[a]pyrene	<10		53	10	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Benzo[b]fluoranthene	<12		53	12	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Benzo[g,h,i]perylene	<17		53	17	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Benzo[k]fluoranthene	<16		53	16	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Chrysene	<15		53	15	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Dibenz(a,h)anthracene	<10		53	10	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Fluoranthene	<9.9		53	9.9	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Fluorene	<7.5		53	7.5	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Indeno[1,2,3-cd]pyrene	<14		53	14	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Naphthalene	<8.2		53	8.2	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Phenanthrene	<7.4		53	7.4	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Pyrene	<11		53	11	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
2-Fluorobiphenyl (Surr)	85		43 - 145	07/18/22 14:22	07/19/22 22:36	1			
Nitrobenzene-d5 (Surr)	78		37 - 147	07/18/22 14:22	07/19/22 22:36	1			
Terphenyl-d14 (Surr)	101		42 - 157	07/18/22 14:22	07/19/22 22:36	1			

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.6		0.53	0.24	mg/Kg	⊗	07/15/22 08:24	07/18/22 12:33	1

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: SB-2D

Date Collected: 07/08/22 10:00

Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-2

Matrix: Solid

Percent Solids: 80.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<27		75	27	ug/Kg	⊗	07/08/22 10:00	07/21/22 15:20	50
1,3,5-Trimethylbenzene	<29		75	29	ug/Kg	⊗	07/08/22 10:00	07/21/22 15:20	50
Benzene	<11		19	11	ug/Kg	⊗	07/08/22 10:00	07/21/22 15:20	50
Ethylbenzene	<14		19	14	ug/Kg	⊗	07/08/22 10:00	07/21/22 15:20	50
Methyl tert-butyl ether	<30		75	30	ug/Kg	⊗	07/08/22 10:00	07/21/22 15:20	50
Toluene	<11		19	11	ug/Kg	⊗	07/08/22 10:00	07/21/22 15:20	50
Xylenes, Total	17	J B	38	17	ug/Kg	⊗	07/08/22 10:00	07/21/22 15:20	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126				07/08/22 10:00	07/21/22 15:20	50
4-Bromofluorobenzene (Surr)	104		72 - 124				07/08/22 10:00	07/21/22 15:20	50
Dibromofluoromethane (Surr)	105		75 - 120				07/08/22 10:00	07/21/22 15:20	50
Toluene-d8 (Surr)	100		75 - 120				07/08/22 10:00	07/21/22 15:20	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-MethylNaphthalene	220	J	240	29	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
2-MethylNaphthalene	<21		240	21	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Acenaphthene	<21		120	21	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Acenaphthylene	<15		120	15	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Anthracene	<20		120	20	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Benzo[a]anthracene	<16		120	16	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Benzo[a]pyrene	<23		120	23	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Benzo[b]fluoranthene	<25		120	25	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Benzo[g,h,i]perylene	<38		120	38	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Benzo[k]fluoranthene	<34		120	34	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Chrysene	<32		120	32	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Dibenz(a,h)anthracene	<23		120	23	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Fluoranthene	<22		120	22	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Fluorene	<16		120	16	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Indeno[1,2,3-cd]pyrene	<30		120	30	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Naphthalene	35	J	120	18	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Phenanthrene	<16		120	16	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Pyrene	<23		120	23	ug/Kg	⊗	07/18/22 14:22	07/19/22 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		43 - 145				07/18/22 14:22	07/19/22 22:59	1
Nitrobenzene-d5 (Surr)	80		37 - 147				07/18/22 14:22	07/19/22 22:59	1
Terphenyl-d14 (Surr)	118		42 - 157				07/18/22 14:22	07/19/22 22:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.4		0.54	0.25	mg/Kg	⊗	07/15/22 08:24	07/18/22 12:49	1

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: SB-3D

Date Collected: 07/08/22 10:15
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-3

Matrix: Solid

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1400		270	95	ug/Kg	⊗	07/20/22 20:55	07/21/22 15:43	200
1,3,5-Trimethylbenzene	3500		270	100	ug/Kg	⊗	07/20/22 20:55	07/21/22 15:43	200
Benzene	<39		67	39	ug/Kg	⊗	07/20/22 20:55	07/21/22 15:43	200
Ethylbenzene	1800		67	49	ug/Kg	⊗	07/20/22 20:55	07/21/22 15:43	200
Methyl tert-butyl ether	<110		270	110	ug/Kg	⊗	07/20/22 20:55	07/21/22 15:43	200
Toluene	110		67	39	ug/Kg	⊗	07/20/22 20:55	07/21/22 15:43	200
Xylenes, Total	17000	B	130	59	ug/Kg	⊗	07/20/22 20:55	07/21/22 15:43	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				07/20/22 20:55	07/21/22 15:43	200
Toluene-d8 (Surr)	98		75 - 120				07/20/22 20:55	07/21/22 15:43	200
4-Bromofluorobenzene (Surr)	101		72 - 124				07/20/22 20:55	07/21/22 15:43	200
Dibromofluoromethane (Surr)	104		75 - 120				07/20/22 20:55	07/21/22 15:43	200

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	13000		5700	690	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
2-Methylnaphthalene	8500		5700	520	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Acenaphthene	<510		2800	510	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Acenaphthylene	610 J		2800	380	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Anthracene	560 J		2800	480	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Benzo[a]anthracene	<380		2800	380	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Benzo[a]pyrene	<550		2800	550	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Benzo[b]fluoranthene	<610		2800	610	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Benzo[g,h,i]perylene	<920		2800	920	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Benzo[k]fluoranthene	<840		2800	840	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Chrysene	<780		2800	780	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Dibenz(a,h)anthracene	<550		2800	550	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Fluoranthene	690 J		2800	530	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Fluorene	890 J		2800	400	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Indeno[1,2,3-cd]pyrene	<740		2800	740	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Naphthalene	12000		2800	440	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Phenanthrene	1900 J		2800	400	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Pyrene	1500 J		2800	570	ug/Kg	⊗	07/18/22 14:22	07/20/22 23:58	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	0 D		43 - 145				07/18/22 14:22	07/20/22 23:58	50
Nitrobenzene-d5 (Surr)	0 D		37 - 147				07/18/22 14:22	07/20/22 23:58	50
Terphenyl-d14 (Surr)	0 D		42 - 157				07/18/22 14:22	07/20/22 23:58	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	55		0.53	0.25	mg/Kg	⊗	07/15/22 08:24	07/18/22 12:52	1

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: SB-4C

Date Collected: 07/08/22 10:30
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-4

Matrix: Solid

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<26		73	26	ug/Kg	⊗	07/08/22 10:30	07/22/22 11:40	50
1,3,5-Trimethylbenzene	<28		73	28	ug/Kg	⊗	07/08/22 10:30	07/22/22 11:40	50
Benzene	<11		18	11	ug/Kg	⊗	07/08/22 10:30	07/22/22 11:40	50
Ethylbenzene	<13		18	13	ug/Kg	⊗	07/08/22 10:30	07/22/22 11:40	50
Methyl tert-butyl ether	<29		73	29	ug/Kg	⊗	07/08/22 10:30	07/22/22 11:40	50
Toluene	<11		18	11	ug/Kg	⊗	07/08/22 10:30	07/22/22 11:40	50
Xylenes, Total	<16		37	16	ug/Kg	⊗	07/08/22 10:30	07/22/22 11:40	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 126	07/08/22 10:30	07/22/22 11:40	50
4-Bromofluorobenzene (Surr)	107		72 - 124	07/08/22 10:30	07/22/22 11:40	50
Dibromofluoromethane (Surr)	91		75 - 120	07/08/22 10:30	07/22/22 11:40	50
Toluene-d8 (Surr)	91		75 - 120	07/08/22 10:30	07/22/22 11:40	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<26		210	26	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
2-Methylnaphthalene	<19		210	19	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Acenaphthene	<19		110	19	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Acenaphthylene	<14		110	14	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Anthracene	<18		110	18	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Benzo[a]anthracene	14 J		110	14	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Benzo[a]pyrene	<20		110	20	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Benzo[b]fluoranthene	<23		110	23	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Benzo[g,h,i]perylene	<34		110	34	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Benzo[k]fluoranthene	<31		110	31	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Chrysene	<29		110	29	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Dibenz(a,h)anthracene	<20		110	20	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Fluoranthene	30 J		110	20	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Fluorene	<15		110	15	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Indeno[1,2,3-cd]pyrene	<27		110	27	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Naphthalene	<16		110	16	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Phenanthrene	16 J		110	15	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1
Pyrene	29 J		110	21	ug/Kg	⊗	07/18/22 14:22	07/19/22 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		43 - 145	07/18/22 14:22	07/19/22 23:45	1
Nitrobenzene-d5 (Surr)	71		37 - 147	07/18/22 14:22	07/19/22 23:45	1
Terphenyl-d14 (Surr)	107		42 - 157	07/18/22 14:22	07/19/22 23:45	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.8		0.61	0.28	mg/Kg	⊗	07/15/22 08:24	07/18/22 12:55	1

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: SB-5D

Date Collected: 07/08/22 10:45
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-5

Matrix: Solid

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<27		75	27	ug/Kg	⊗	07/08/22 10:45	07/22/22 12:04	50
1,3,5-Trimethylbenzene	<28		75	28	ug/Kg	⊗	07/08/22 10:45	07/22/22 12:04	50
Benzene	<11		19	11	ug/Kg	⊗	07/08/22 10:45	07/22/22 12:04	50
Ethylbenzene	<14		19	14	ug/Kg	⊗	07/08/22 10:45	07/22/22 12:04	50
Methyl tert-butyl ether	<30		75	30	ug/Kg	⊗	07/08/22 10:45	07/22/22 12:04	50
Toluene	<11		19	11	ug/Kg	⊗	07/08/22 10:45	07/22/22 12:04	50
Xylenes, Total	<16		37	16	ug/Kg	⊗	07/08/22 10:45	07/22/22 12:04	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 126				07/08/22 10:45	07/22/22 12:04	50
4-Bromofluorobenzene (Surr)	108		72 - 124				07/08/22 10:45	07/22/22 12:04	50
Dibromofluoromethane (Surr)	92		75 - 120				07/08/22 10:45	07/22/22 12:04	50
Toluene-d8 (Surr)	91		75 - 120				07/08/22 10:45	07/22/22 12:04	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<28		230	28	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
2-Methylnaphthalene	<21		230	21	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Acenaphthene	<21		110	21	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Acenaphthylene	<15		110	15	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Anthracene	<19		110	19	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Benzo[a]anthracene	<15		110	15	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Benzo[a]pyrene	<22		110	22	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Benzo[b]fluoranthene	<25		110	25	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Benzo[g,h,i]perylene	<37		110	37	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Benzo[k]fluoranthene	<34		110	34	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Chrysene	<31		110	31	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Dibenz(a,h)anthracene	<22		110	22	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Fluoranthene	<21		110	21	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Fluorene	<16		110	16	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Indeno[1,2,3-cd]pyrene	<30		110	30	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Naphthalene	<18		110	18	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Phenanthrene	<16		110	16	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Pyrene	<23		110	23	ug/Kg	⊗	07/18/22 14:22	07/20/22 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		43 - 145				07/18/22 14:22	07/20/22 00:09	1
Nitrobenzene-d5 (Surr)	70		37 - 147				07/18/22 14:22	07/20/22 00:09	1
Terphenyl-d14 (Surr)	103		42 - 157				07/18/22 14:22	07/20/22 00:09	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.9		0.61	0.28	mg/Kg	⊗	07/15/22 08:24	07/18/22 12:58	1

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: SB-3

Date Collected: 07/08/22 11:15
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	110		5.0	1.8	ug/L			07/22/22 12:29	5
1,3,5-Trimethylbenzene	140		5.0	1.3	ug/L			07/22/22 12:29	5
Benzene	<0.73		2.5	0.73	ug/L			07/22/22 12:29	5
Ethylbenzene	44		2.5	0.92	ug/L			07/22/22 12:29	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			07/22/22 12:29	5
Toluene	3.1		2.5	0.76	ug/L			07/22/22 12:29	5
Xylenes, Total	240		5.0	1.1	ug/L			07/22/22 12:29	5
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100			75 - 126				07/22/22 12:29	5
4-Bromofluorobenzene (Surr)	121			72 - 124				07/22/22 12:29	5
Dibromofluoromethane (Surr)	94			75 - 120				07/22/22 12:29	5
Toluene-d8 (Surr)	122	S1+		75 - 120				07/22/22 12:29	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	25 *1		1.5	0.23	ug/L		07/14/22 07:43	07/19/22 20:18	1
2-Methylnaphthalene	16 *1		1.5	0.050	ug/L		07/14/22 07:43	07/19/22 20:18	1
Acenaphthene	0.58 J *1		0.77	0.24	ug/L		07/14/22 07:43	07/19/22 20:18	1
Acenaphthylene	0.83 *1		0.77	0.20	ug/L		07/14/22 07:43	07/19/22 20:18	1
Anthracene	0.45 J *- *1		0.77	0.26	ug/L		07/14/22 07:43	07/19/22 20:18	1
Benzo[a]anthracene	0.28 *- *1		0.15	0.043	ug/L		07/14/22 07:43	07/19/22 20:18	1
Benzo[a]pyrene	<0.076 *- *1		0.15	0.076	ug/L		07/14/22 07:43	07/19/22 20:18	1
Benzo[b]fluoranthene	<0.062 *- *1		0.15	0.062	ug/L		07/14/22 07:43	07/19/22 20:18	1
Benzo[g,h,i]perylene	<0.29 *1		0.77	0.29	ug/L		07/14/22 07:43	07/19/22 20:18	1
Benzo[k]fluoranthene	<0.049 *- *1		0.15	0.049	ug/L		07/14/22 07:43	07/19/22 20:18	1
Chrysene	0.51 *- *1		0.15	0.052	ug/L		07/14/22 07:43	07/19/22 20:18	1
Dibenz(a,h)anthracene	<0.039 *- *1		0.23	0.039	ug/L		07/14/22 07:43	07/19/22 20:18	1
Fluoranthene	1.2		0.77	0.35	ug/L		07/14/22 07:43	07/19/22 20:18	1
Fluorene	1.1 *1		0.77	0.19	ug/L		07/14/22 07:43	07/19/22 20:18	1
Indeno[1,2,3-cd]pyrene	<0.057 *1		0.15	0.057	ug/L		07/14/22 07:43	07/19/22 20:18	1
Naphthalene	30 *1		0.77	0.24	ug/L		07/14/22 07:43	07/19/22 20:18	1
Phenanthrene	2.6 *- *1		0.77	0.23	ug/L		07/14/22 07:43	07/19/22 20:18	1
Pyrene	2.5 *- *1		0.77	0.33	ug/L		07/14/22 07:43	07/19/22 20:18	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73			34 - 110				07/14/22 07:43	07/19/22 20:18
Nitrobenzene-d5 (Surr)	53			36 - 120				07/14/22 07:43	07/19/22 20:18
Terphenyl-d14 (Surr)	109			40 - 145				07/14/22 07:43	07/19/22 20:18

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.071		0.0050	0.0027	mg/L		07/14/22 08:03	07/14/22 18:15	1

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: Trip Blank
Date Collected: 07/08/22 00:00
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/21/22 17:16	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/21/22 17:16	1
Benzene	<0.15		0.50	0.15	ug/L			07/21/22 17:16	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/21/22 17:16	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/21/22 17:16	1
Toluene	<0.15		0.50	0.15	ug/L			07/21/22 17:16	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/21/22 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126					07/21/22 17:16	1
4-Bromofluorobenzene (Surr)	103		72 - 124					07/21/22 17:16	1
Dibromofluoromethane (Surr)	104		75 - 120					07/21/22 17:16	1
Toluene-d8 (Surr)	99		75 - 120					07/21/22 17:16	1

Definitions/Glossary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

GC/MS VOA

Prep Batch: 666170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-1	SB-1C	Total/NA	Solid	5035	
500-219203-2	SB-2D	Total/NA	Solid	5035	
500-219203-4	SB-4C	Total/NA	Solid	5035	
500-219203-5	SB-5D	Total/NA	Solid	5035	
LB3 500-666170/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-666170/22-A	Lab Control Sample	Total/NA	Solid	5035	

Prep Batch: 666336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-3	SB-3D	Total/NA	Solid	5030B	

Analysis Batch: 666373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-1	SB-1C	Total/NA	Solid	8260B	666170
500-219203-2	SB-2D	Total/NA	Solid	8260B	666170
500-219203-3	SB-3D	Total/NA	Solid	8260B	666336
MB 500-666373/5	Method Blank	Total/NA	Solid	8260B	
LCS 500-666373/3	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 666374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-7	Trip Blank	Total/NA	Water	8260B	
MB 500-666374/5	Method Blank	Total/NA	Water	8260B	
LCS 500-666374/3	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 666388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-666170/21-A	Method Blank	Total/NA	Solid	8260B	666170
MB 500-666388/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-666170/22-A	Lab Control Sample	Total/NA	Solid	8260B	666170
LCS 500-666388/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 666571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-4	SB-4C	Total/NA	Solid	8260B	666170
500-219203-5	SB-5D	Total/NA	Solid	8260B	666170
MB 500-666571/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-666571/5	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 666572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-6	SB-3	Total/NA	Water	8260B	
MB 500-666572/7	Method Blank	Total/NA	Water	8260B	
LCS 500-666572/5	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 665452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-6	SB-3	Total/NA	Water	3510C	
MB 500-665452/1-A	Method Blank	Total/NA	Water	3510C	

Eurofins Chicago

QC Association Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

GC/MS Semi VOA (Continued)

Prep Batch: 665452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-665452/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-665452/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 665966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-1	SB-1C	Total/NA	Solid	3541	
500-219203-2	SB-2D	Total/NA	Solid	3541	
500-219203-3	SB-3D	Total/NA	Solid	3541	
500-219203-4	SB-4C	Total/NA	Solid	3541	
500-219203-5	SB-5D	Total/NA	Solid	3541	

Analysis Batch: 666048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-665452/1-A	Method Blank	Total/NA	Water	8270D	665452
LCS 500-665452/2-A	Lab Control Sample	Total/NA	Water	8270D	665452

Analysis Batch: 666107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-6	SB-3	Total/NA	Water	8270D	665452

Analysis Batch: 666143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-1	SB-1C	Total/NA	Solid	8270D	665966
500-219203-2	SB-2D	Total/NA	Solid	8270D	665966
500-219203-4	SB-4C	Total/NA	Solid	8270D	665966
500-219203-5	SB-5D	Total/NA	Solid	8270D	665966

Analysis Batch: 666204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-665452/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	665452

Analysis Batch: 666307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-3	SB-3D	Total/NA	Solid	8270D	665966

Metals

Prep Batch: 665456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-6	SB-3	Total Recoverable	Water	3005A	
MB 500-665456/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-665456/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-219203-6 MS	SB-3	Total Recoverable	Water	3005A	
500-219203-6 MSD	SB-3	Total Recoverable	Water	3005A	
500-219203-6 DU	SB-3	Total Recoverable	Water	3005A	

Prep Batch: 665619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-1	SB-1C	Total/NA	Solid	3050B	
500-219203-2	SB-2D	Total/NA	Solid	3050B	
500-219203-3	SB-3D	Total/NA	Solid	3050B	

Eurofins Chicago

QC Association Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Metals (Continued)

Prep Batch: 665619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-4	SB-4C	Total/NA	Solid	3050B	
500-219203-5	SB-5D	Total/NA	Solid	3050B	
MB 500-665619/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-665619/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-219203-1 MS	SB-1C	Total/NA	Solid	3050B	
500-219203-1 MSD	SB-1C	Total/NA	Solid	3050B	
500-219203-1 DU	SB-1C	Total/NA	Solid	3050B	

Analysis Batch: 665675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-6	SB-3	Total Recoverable	Water	6010C	665456
MB 500-665456/1-A	Method Blank	Total Recoverable	Water	6010C	665456
LCS 500-665456/2-A	Lab Control Sample	Total Recoverable	Water	6010C	665456
500-219203-6 MS	SB-3	Total Recoverable	Water	6010C	665456
500-219203-6 MSD	SB-3	Total Recoverable	Water	6010C	665456
500-219203-6 DU	SB-3	Total Recoverable	Water	6010C	665456

Analysis Batch: 665975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-1	SB-1C	Total/NA	Solid	6010C	665619
500-219203-2	SB-2D	Total/NA	Solid	6010C	665619
500-219203-3	SB-3D	Total/NA	Solid	6010C	665619
500-219203-4	SB-4C	Total/NA	Solid	6010C	665619
500-219203-5	SB-5D	Total/NA	Solid	6010C	665619
MB 500-665619/1-A	Method Blank	Total/NA	Solid	6010C	665619
LCS 500-665619/2-A	Lab Control Sample	Total/NA	Solid	6010C	665619
500-219203-1 MS	SB-1C	Total/NA	Solid	6010C	665619
500-219203-1 MSD	SB-1C	Total/NA	Solid	6010C	665619
500-219203-1 DU	SB-1C	Total/NA	Solid	6010C	665619

General Chemistry

Analysis Batch: 665173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219203-1	SB-1C	Total/NA	Solid	Moisture	
500-219203-2	SB-2D	Total/NA	Solid	Moisture	
500-219203-3	SB-3D	Total/NA	Solid	Moisture	
500-219203-4	SB-4C	Total/NA	Solid	Moisture	
500-219203-5	SB-5D	Total/NA	Solid	Moisture	
500-219203-1 DU	SB-1C	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Hyde Environmental, Inc.

Job ID: 500-219203-1

Project/Site: Ruffolo Phll

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-219203-1	SB-1C	103	98	100	106
500-219203-2	SB-2D	105	104	105	100
500-219203-3	SB-3D	102	101	104	98
500-219203-4	SB-4C	92	107	91	91
500-219203-5	SB-5D	95	108	92	91
LB3 500-666170/21-A	Method Blank	99	109	104	100
LCS 500-666170/22-A	Lab Control Sample	94	95	103	99
LCS 500-666373/3	Lab Control Sample	104	97	104	106
LCS 500-666388/4	Lab Control Sample	95	94	101	99
LCS 500-666571/5	Lab Control Sample	95	106	94	89
MB 500-666373/5	Method Blank	102	105	101	102
MB 500-666388/6	Method Blank	102	106	104	99
MB 500-666571/7	Method Blank	96	108	95	90

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-219203-6	SB-3	100	121	94	122 S1+
500-219203-7	Trip Blank	105	103	104	99
LCS 500-666374/3	Lab Control Sample	104	97	104	106
LCS 500-666572/5	Lab Control Sample	95	106	94	89
MB 500-666374/5	Method Blank	102	105	101	102
MB 500-666572/7	Method Blank	96	108	95	90

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (43-145)	NBZ (37-147)	TPHL (42-157)
500-219203-1	SB-1C	85	78	101
500-219203-2	SB-2D	88	80	118
500-219203-3	SB-3D	0 D	0 D	0 D
500-219203-4	SB-4C	78	71	107
500-219203-5	SB-5D	76	70	103

Surrogate Legend

Eurofins Chicago

Surrogate Summary

Client: Hyde Environmental, Inc.

Job ID: 500-219203-1

Project/Site: Ruffolo Phll

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (34-110)	NBZ (36-120)	TPHL (40-145)							
500-219203-6	SB-3	73	53	109							
LCS 500-665452/2-A	Lab Control Sample	72	60	113							
LCSD 500-665452/3-A	Lab Control Sample Dup	52	48	72							
MB 500-665452/1-A	Method Blank	69	65	122							

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-666170/21-A

Matrix: Solid

Analysis Batch: 666388

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 666170

Analyte	LB3		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg				50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg				50
Benzene	<7.3		13	7.3	ug/Kg				50
Ethylbenzene	<9.2		13	9.2	ug/Kg				50
Methyl tert-butyl ether	<20		50	20	ug/Kg				50
Toluene	<7.4		13	7.4	ug/Kg				50
Xylenes, Total	<11		25	11	ug/Kg				50

LB3 LB3

Surrogate	LB3		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		75 - 126	07/20/22 00:40	07/21/22 17:23	50
4-Bromofluorobenzene (Surr)	109		72 - 124	07/20/22 00:40	07/21/22 17:23	50
Dibromofluoromethane (Surr)	104		75 - 120	07/20/22 00:40	07/21/22 17:23	50
Toluene-d8 (Surr)	100		75 - 120	07/20/22 00:40	07/21/22 17:23	50

Lab Sample ID: LCS 500-666170/22-A

Matrix: Solid

Analysis Batch: 666388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 666170

Analyte	Spike		Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added							
1,2,4-Trimethylbenzene	2500		2610		ug/Kg		104	70 - 123
1,3,5-Trimethylbenzene	2500		2620		ug/Kg		105	70 - 123
Benzene	2500		2710		ug/Kg		108	70 - 120
Ethylbenzene	2500		2730		ug/Kg		109	70 - 123
Methyl tert-butyl ether	2500		2680		ug/Kg		107	55 - 123
Toluene	2500		2740		ug/Kg		109	70 - 125
Xylenes, Total	5000		5660		ug/Kg		113	70 - 125

LCS LCS

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		75 - 126
4-Bromofluorobenzene (Surr)	95		72 - 124
Dibromofluoromethane (Surr)	103		75 - 120
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: MB 500-666373/5

Matrix: Solid

Analysis Batch: 666373

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/21/22 11:27	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/21/22 11:27	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/21/22 11:27	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/21/22 11:27	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/21/22 11:27	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/21/22 11:27	1
Xylenes, Total	0.465	J	0.50	0.22	ug/Kg			07/21/22 11:27	1

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.

Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-666373/5

Matrix: Solid

Analysis Batch: 666373

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB	MB	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)		102			75 - 126
4-Bromofluorobenzene (Surr)		105			72 - 124
Dibromofluoromethane (Surr)		101			75 - 120
Toluene-d8 (Surr)		102			75 - 120

Prepared	Analyzed	Dil Fac
	07/21/22 11:27	1
	07/21/22 11:27	1
	07/21/22 11:27	1
	07/21/22 11:27	1

Lab Sample ID: LCS 500-666373/3

Matrix: Solid

Analysis Batch: 666373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	MB	MB	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
			Added	Result	Qualifier					
1,2,4-Trimethylbenzene			50.0	50.5		ug/Kg		101	70 - 123	
1,3,5-Trimethylbenzene			50.0	50.6		ug/Kg		101	70 - 123	
Benzene			50.0	50.3		ug/Kg		101	70 - 120	
Ethylbenzene			50.0	48.8		ug/Kg		98	70 - 123	
Methyl tert-butyl ether			50.0	51.9		ug/Kg		104	55 - 123	
Toluene			50.0	49.4		ug/Kg		99	70 - 125	
Xylenes, Total			100	102		ug/Kg		102	70 - 125	

LCS LCS

Surrogate	MB	MB	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)		104			75 - 126
4-Bromofluorobenzene (Surr)		97			72 - 124
Dibromofluoromethane (Surr)		104			75 - 120
Toluene-d8 (Surr)		106			75 - 120

Lab Sample ID: MB 500-666374/5

Matrix: Water

Analysis Batch: 666374

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene			<0.36		1.0	0.36	ug/L			07/21/22 11:27	1
1,3,5-Trimethylbenzene			<0.25		1.0	0.25	ug/L			07/21/22 11:27	1
Benzene			<0.15		0.50	0.15	ug/L			07/21/22 11:27	1
Ethylbenzene			<0.18		0.50	0.18	ug/L			07/21/22 11:27	1
Methyl tert-butyl ether			<0.39		1.0	0.39	ug/L			07/21/22 11:27	1
Toluene			<0.15		0.50	0.15	ug/L			07/21/22 11:27	1
Xylenes, Total			0.465	J	1.0	0.22	ug/L			07/21/22 11:27	1

MB MB

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		102			75 - 126			1
4-Bromofluorobenzene (Surr)		105			72 - 124			1
Dibromofluoromethane (Surr)		101			75 - 120			1
Toluene-d8 (Surr)		102			75 - 120			1

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.

Job ID: 500-219203-1

Project/Site: Ruffolo Phll

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-666374/3

Matrix: Water

Analysis Batch: 666374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	50.0	50.5		ug/L		101	70 - 123
1,3,5-Trimethylbenzene	50.0	50.6		ug/L		101	70 - 123
Benzene	50.0	50.3		ug/L		101	70 - 120
Ethylbenzene	50.0	48.8		ug/L		98	70 - 123
Methyl tert-butyl ether	50.0	51.9		ug/L		104	55 - 123
Toluene	50.0	49.4		ug/L		99	70 - 125
Xylenes, Total	100	102		ug/L		102	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		75 - 126
4-Bromofluorobenzene (Surr)	97		72 - 124
Dibromofluoromethane (Surr)	104		75 - 120
Toluene-d8 (Surr)	106		75 - 120

Lab Sample ID: MB 500-666388/6

Matrix: Solid

Analysis Batch: 666388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/21/22 11:29	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/21/22 11:29	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/21/22 11:29	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/21/22 11:29	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/21/22 11:29	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/21/22 11:29	1
Xylenes, Total	0.353	J	0.50	0.22	ug/Kg			07/21/22 11:29	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		07/21/22 11:29	1
4-Bromofluorobenzene (Surr)	106		72 - 124		07/21/22 11:29	1
Dibromofluoromethane (Surr)	104		75 - 120		07/21/22 11:29	1
Toluene-d8 (Surr)	99		75 - 120		07/21/22 11:29	1

Lab Sample ID: LCS 500-666388/4

Matrix: Solid

Analysis Batch: 666388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 123
1,3,5-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 123
Benzene	50.0	52.1		ug/Kg		104	70 - 120
Ethylbenzene	50.0	54.4		ug/Kg		109	70 - 123
Methyl tert-butyl ether	50.0	50.3		ug/Kg		101	55 - 123
Toluene	50.0	52.1		ug/Kg		104	70 - 125
Xylenes, Total	100	113		ug/Kg		113	70 - 125

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.

Job ID: 500-219203-1

Project/Site: Ruffolo Phll

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-666388/4

Matrix: Solid

Analysis Batch: 666388

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		75 - 126
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane (Surr)	101		75 - 120
Toluene-d8 (Surr)	99		75 - 120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Lab Sample ID: MB 500-666571/7

Matrix: Solid

Analysis Batch: 666571

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/22/22 11:16	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/22/22 11:16	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/22/22 11:16	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/22/22 11:16	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/22/22 11:16	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/22/22 11:16	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/22/22 11:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		07/22/22 11:16	1
4-Bromofluorobenzene (Surr)	108		72 - 124		07/22/22 11:16	1
Dibromofluoromethane (Surr)	95		75 - 120		07/22/22 11:16	1
Toluene-d8 (Surr)	90		75 - 120		07/22/22 11:16	1

Lab Sample ID: LCS 500-666571/5

Matrix: Solid

Analysis Batch: 666571

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
1,2,4-Trimethylbenzene	50.0	52.1		ug/Kg		104	70 - 123
1,3,5-Trimethylbenzene	50.0	52.0		ug/Kg		104	70 - 123
Benzene	50.0	48.1		ug/Kg		96	70 - 120
Ethylbenzene	50.0	48.5		ug/Kg		97	70 - 123
Methyl tert-butyl ether	50.0	45.2		ug/Kg		90	55 - 123
Toluene	50.0	48.6		ug/Kg		97	70 - 125
Xylenes, Total	100	98.8		ug/Kg		99	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		75 - 126
4-Bromofluorobenzene (Surr)	106		72 - 124
Dibromofluoromethane (Surr)	94		75 - 120
Toluene-d8 (Surr)	89		75 - 120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-666572/7

Matrix: Water

Analysis Batch: 666572

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/22/22 11:16	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/22/22 11:16	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/22/22 11:16	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/22/22 11:16	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/22/22 11:16	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/22/22 11:16	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/22/22 11:16	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		07/22/22 11:16	1
4-Bromofluorobenzene (Surr)	108		72 - 124		07/22/22 11:16	1
Dibromofluoromethane (Surr)	95		75 - 120		07/22/22 11:16	1
Toluene-d8 (Surr)	90		75 - 120		07/22/22 11:16	1

Lab Sample ID: LCS 500-666572/5

Matrix: Water

Analysis Batch: 666572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	50.0	52.1		ug/Kg		104	70 - 123
1,3,5-Trimethylbenzene	50.0	52.0		ug/Kg		104	70 - 123
Benzene	50.0	48.1		ug/Kg		96	70 - 120
Ethylbenzene	50.0	48.5		ug/Kg		97	70 - 123
Methyl tert-butyl ether	50.0	45.2		ug/Kg		90	55 - 123
Toluene	50.0	48.6		ug/Kg		97	70 - 125
Xylenes, Total	100	98.8		ug/Kg		99	70 - 125

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 126
4-Bromofluorobenzene (Surr)	106		72 - 124
Dibromofluoromethane (Surr)	94		75 - 120
Toluene-d8 (Surr)	89		75 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-665452/1-A

Matrix: Water

Analysis Batch: 666048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 665452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		07/14/22 07:43	07/19/22 10:45	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		07/14/22 07:43	07/19/22 10:45	1
Acenaphthene	<0.25		0.80	0.25	ug/L		07/14/22 07:43	07/19/22 10:45	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		07/14/22 07:43	07/19/22 10:45	1
Anthracene	<0.27		0.80	0.27	ug/L		07/14/22 07:43	07/19/22 10:45	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		07/14/22 07:43	07/19/22 10:45	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		07/14/22 07:43	07/19/22 10:45	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		07/14/22 07:43	07/19/22 10:45	1

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.

Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-665452/1-A

Matrix: Water

Analysis Batch: 666048

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 665452

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L	07/14/22 07:43	07/19/22 10:45	1	
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L	07/14/22 07:43	07/19/22 10:45	1	
Chrysene	<0.055		0.16	0.055	ug/L	07/14/22 07:43	07/19/22 10:45	1	
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L	07/14/22 07:43	07/19/22 10:45	1	
Fluoranthene	<0.36		0.80	0.36	ug/L	07/14/22 07:43	07/19/22 10:45	1	
Fluorene	<0.20		0.80	0.20	ug/L	07/14/22 07:43	07/19/22 10:45	1	
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L	07/14/22 07:43	07/19/22 10:45	1	
Naphthalene	<0.25		0.80	0.25	ug/L	07/14/22 07:43	07/19/22 10:45	1	
Phenanthrene	<0.24		0.80	0.24	ug/L	07/14/22 07:43	07/19/22 10:45	1	
Pyrene	<0.34		0.80	0.34	ug/L	07/14/22 07:43	07/19/22 10:45	1	

Surrogate	MB		Limits	Prepared		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed	
2-Fluorobiphenyl (Surr)	69		34 - 110	07/14/22 07:43	07/19/22 10:45	1
Nitrobenzene-d5 (Surr)	65		36 - 120	07/14/22 07:43	07/19/22 10:45	1
Terphenyl-d14 (Surr)	122		40 - 145	07/14/22 07:43	07/19/22 10:45	1

Lab Sample ID: LCS 500-665452/2-A

Matrix: Water

Analysis Batch: 666048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 665452

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec		Limits
	Added	Added					%Rec	Limits	
1-Methylnaphthalene	32.0		18.6		ug/L	58	38 - 110		
2-Methylnaphthalene	32.0		18.6		ug/L	58	34 - 110		
Acenaphthene	32.0		21.1		ug/L	66	46 - 110		
Acenaphthylene	32.0		23.7		ug/L	74	47 - 113		
Anthracene	32.0		25.6		ug/L	80	67 - 118		
Benzo[a]anthracene	32.0		27.7		ug/L	87	70 - 126		
Benzo[a]pyrene	32.0		28.1		ug/L	88	70 - 135		
Benzo[b]fluoranthene	32.0		28.9		ug/L	90	69 - 136		
Benzo[g,h,i]perylene	32.0		34.5		ug/L	108	70 - 135		
Benzo[k]fluoranthene	32.0		29.5		ug/L	92	70 - 133		
Chrysene	32.0		29.2		ug/L	91	68 - 129		
Dibenz(a,h)anthracene	32.0		28.7		ug/L	90	70 - 134		
Fluoranthene	32.0		23.8		ug/L	74	68 - 126		
Fluorene	32.0		22.2		ug/L	69	53 - 120		
Indeno[1,2,3-cd]pyrene	32.0		29.6		ug/L	93	65 - 133		
Naphthalene	32.0		17.7		ug/L	55	36 - 110		
Phenanthrene	32.0		25.4		ug/L	79	65 - 120		
Pyrene	32.0		30.8		ug/L	96	70 - 126		

Surrogate	LCS		LCS Result	LCS Qualifier	Unit	D	%Rec		Limits
	%Recovery	Qualifier					%Rec	Limits	
2-Fluorobiphenyl (Surr)	72		34 - 110						
Nitrobenzene-d5 (Surr)	60		36 - 120						
Terphenyl-d14 (Surr)	113		40 - 145						

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.

Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-665452/3-A

Matrix: Water

Analysis Batch: 666204

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 665452

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	32.0	13.6	*1	ug/L		42	38 - 110	31	20
2-Methylnaphthalene	32.0	13.2	*1	ug/L		41	34 - 110	34	20
Acenaphthene	32.0	16.8	*1	ug/L		53	46 - 110	23	20
Acenaphthylene	32.0	16.2	*1	ug/L		51	47 - 113	38	20
Anthracene	32.0	19.9	*- *1	ug/L		62	67 - 118	25	20
Benzo[a]anthracene	32.0	20.2	*- *1	ug/L		63	70 - 126	31	20
Benzo[a]pyrene	32.0	20.8	*- *1	ug/L		65	70 - 135	30	20
Benzo[b]fluoranthene	32.0	20.5	*- *1	ug/L		64	69 - 136	34	20
Benzo[g,h,i]perylene	32.0	22.8	*1	ug/L		71	70 - 135	41	20
Benzo[k]fluoranthene	32.0	21.0	*- *1	ug/L		66	70 - 133	34	20
Chrysene	32.0	20.8	*- *1	ug/L		65	68 - 129	34	20
Dibenz(a,h)anthracene	32.0	21.3	*- *1	ug/L		67	70 - 134	29	20
Fluoranthene	32.0	21.9		ug/L		69	68 - 126	8	20
Fluorene	32.0	17.9	*1	ug/L		56	53 - 120	21	20
Indeno[1,2,3-cd]pyrene	32.0	21.8	*1	ug/L		68	65 - 133	31	20
Naphthalene	32.0	13.3	*1	ug/L		42	36 - 110	29	20
Phenanthrene	32.0	19.1	*- *1	ug/L		60	65 - 120	28	20
Pyrene	32.0	21.8	*- *1	ug/L		68	70 - 126	34	20

LCSD *LCSD*

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	52		34 - 110
Nitrobenzene-d5 (Surr)	48		36 - 120
Terphenyl-d14 (Surr)	72		40 - 145

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-665619/1-A

Matrix: Solid

Analysis Batch: 665975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 665619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		07/15/22 08:24	07/18/22 11:15	1

Lab Sample ID: LCS 500-665619/2-A

Matrix: Solid

Analysis Batch: 665975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 665619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	10.0	9.39		mg/Kg		94	80 - 120

Lab Sample ID: 500-219203-1 MS

Matrix: Solid

Analysis Batch: 665975

Client Sample ID: SB-1C

Prep Type: Total/NA

Prep Batch: 665619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	5.6		10.4	15.8		mg/Kg		98	75 - 125

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 500-219203-1 MSD

Matrix: Solid

Analysis Batch: 665975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	RPD Limit
Lead	5.6		10.6	16.4		mg/Kg	*	101	75 - 125	4 20

Lab Sample ID: 500-219203-1 DU

Matrix: Solid

Analysis Batch: 665975

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	5.6		6.12		mg/Kg	*	9	20

Lab Sample ID: MB 500-665456/1-A

Matrix: Water

Analysis Batch: 665675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0027		0.0050	0.0027	mg/L	*	07/14/22 08:03	07/14/22 18:08	1

Lab Sample ID: LCS 500-665456/2-A

Matrix: Water

Analysis Batch: 665675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	RPD
Lead	0.100	0.0940		mg/L	*	94	80 - 120

Lab Sample ID: 500-219203-6 MS

Matrix: Water

Analysis Batch: 665675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	RPD
Lead	0.071		0.100	0.171		mg/L	*	100	75 - 125

Lab Sample ID: 500-219203-6 MSD

Matrix: Water

Analysis Batch: 665675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD
Lead	0.071		0.100	0.167		mg/L	*	96	75 - 125

Lab Sample ID: 500-219203-6 DU

Matrix: Water

Analysis Batch: 665675

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	0.071		0.0707		mg/L	*	0.4	20

Eurofins Chicago

Lab Chronicle

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: SB-1C
Date Collected: 07/08/22 09:40
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	665173	07/12/22 14:21	LWN	TAL CHI

Client Sample ID: SB-1C
Date Collected: 07/08/22 09:40
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-1
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			666170	07/08/22 09:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	666373	07/21/22 14:57	W1T	TAL CHI
Total/NA	Prep	3541			665966	07/18/22 14:22	EK	TAL CHI
Total/NA	Analysis	8270D		1	666143	07/19/22 22:36	SS	TAL CHI
Total/NA	Prep	3050B			665619	07/15/22 08:24	LMB	TAL CHI
Total/NA	Analysis	6010C		1	665975	07/18/22 12:33	JJB	TAL CHI

Client Sample ID: SB-2D
Date Collected: 07/08/22 10:00
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	665173	07/12/22 14:21	LWN	TAL CHI

Client Sample ID: SB-2D
Date Collected: 07/08/22 10:00
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-2
Matrix: Solid
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			666170	07/08/22 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	666373	07/21/22 15:20	W1T	TAL CHI
Total/NA	Prep	3541			665966	07/18/22 14:22	EK	TAL CHI
Total/NA	Analysis	8270D		1	666143	07/19/22 22:59	SS	TAL CHI
Total/NA	Prep	3050B			665619	07/15/22 08:24	LMB	TAL CHI
Total/NA	Analysis	6010C		1	665975	07/18/22 12:49	JJB	TAL CHI

Client Sample ID: SB-3D
Date Collected: 07/08/22 10:15
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	665173	07/12/22 14:21	LWN	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Client Sample ID: SB-3D

Date Collected: 07/08/22 10:15
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-3

Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			666336	07/20/22 20:55	WRE	TAL CHI
Total/NA	Analysis	8260B		200	666373	07/21/22 15:43	W1T	TAL CHI
Total/NA	Prep	3541			665966	07/18/22 14:22	EK	TAL CHI
Total/NA	Analysis	8270D		50	666307	07/20/22 23:58	SS	TAL CHI
Total/NA	Prep	3050B			665619	07/15/22 08:24	LMB	TAL CHI
Total/NA	Analysis	6010C		1	665975	07/18/22 12:52	JJB	TAL CHI

Client Sample ID: SB-4C

Date Collected: 07/08/22 10:30
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	665173	07/12/22 14:21	LWN	TAL CHI

Client Sample ID: SB-4C

Date Collected: 07/08/22 10:30
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-4

Matrix: Solid
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			666170	07/08/22 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	666571	07/22/22 11:40	JDD	TAL CHI
Total/NA	Prep	3541			665966	07/18/22 14:22	EK	TAL CHI
Total/NA	Analysis	8270D		1	666143	07/19/22 23:45	SS	TAL CHI
Total/NA	Prep	3050B			665619	07/15/22 08:24	LMB	TAL CHI
Total/NA	Analysis	6010C		1	665975	07/18/22 12:55	JJB	TAL CHI

Client Sample ID: SB-5D

Date Collected: 07/08/22 10:45
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	665173	07/12/22 14:21	LWN	TAL CHI

Client Sample ID: SB-5D

Date Collected: 07/08/22 10:45
Date Received: 07/12/22 10:05

Lab Sample ID: 500-219203-5

Matrix: Solid
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			666170	07/08/22 10:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	666571	07/22/22 12:04	JDD	TAL CHI
Total/NA	Prep	3541			665966	07/18/22 14:22	EK	TAL CHI
Total/NA	Analysis	8270D		1	666143	07/20/22 00:09	SS	TAL CHI
Total/NA	Prep	3050B			665619	07/15/22 08:24	LMB	TAL CHI
Total/NA	Analysis	6010C		1	665975	07/18/22 12:58	JJB	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: Hyde Environmental, Inc.

Job ID: 500-219203-1

Project/Site: Ruffolo Phll

Client Sample ID: SB-3

Lab Sample ID: 500-219203-6

Matrix: Water

Date Collected: 07/08/22 11:15

Date Received: 07/12/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	666572	07/22/22 12:29	JDD	TAL CHI
Total/NA	Prep	3510C			665452	07/14/22 07:43	TS	TAL CHI
Total/NA	Analysis	8270D		1	666107	07/19/22 20:18	SS	TAL CHI
Total Recoverable	Prep	3005A			665456	07/14/22 08:03	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	665675	07/14/22 18:15	JJB	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-219203-7

Matrix: Water

Date Collected: 07/08/22 00:00

Date Received: 07/12/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	666374	07/21/22 17:16	W1T	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Accreditation/Certification Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219203-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Eurofins Chicago

Chain of Custody Record

Client Information		Sampler <i>Logan Cranley</i>	Lab PM Fredrick Sandie	Carrier Tracking No(s)	COC No: 500-103359-44404 1										
Client Contact: Logan Cranley	Phone	E-Mail Sandra.Fredrick@et.eurofinsus.com	State of Origin		Page Page 1 of 1										
Company Hyde Environmental Inc.		PWSID	Analysis Re		Job #: 500-219203										
Address: W175 N11163 Stonewood Drve Suite 110		Due Date Requested			Preservation Codes										
City Germantown		TAT Requested (days)			A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SC3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Other: Z other specify										
State Zip 22 262-250-1226		Compliance Proj c Yes Δ No													
Mr. Logan.y@hyde-env.com To Name Ruffo o Ph II		C # Purchase Or equ red													
Site		W.C # Projec # 50007273													
SSOW#		SSOW#													
Sample Identification		Sample Date <i>7-8-22 0940</i>	Sample Time <i>1000</i>	Sample Type (C=comp, G=grab) BT-Tissue, A=Air	Matrix (W=water S=solid, O=waste/soil, T=tissue, A=air)	Field Filtered Sample (Yes or No) Perform MS/MS/ESI (Yes or No)	500-219203 COC	Total Number of Containers	Special Instructions/Note						
1 SB-1C					Solid	<input checked="" type="checkbox"/> 8260B-PVOC+NAP	<input checked="" type="checkbox"/> 6010C, 8270D	<input checked="" type="checkbox"/> 8260B-PVOC+NAP	<input checked="" type="checkbox"/> 8270D PAH	<input checked="" type="checkbox"/> 6020A Lead	<input checked="" type="checkbox"/> PVOCs <input checked="" type="checkbox"/> PAHs <input checked="" type="checkbox"/> Lead	<input checked="" type="checkbox"/>			
2 SB-2D					Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3 SB-3D					Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4 SB-4C					Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
5 SB-5D					Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
6 SB-3					Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
7 TRIP BLANK					Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
										Added by EETIA 7/12/22 SH					
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements									
Empty Kit Relinquished by			Date	Time	Method of Shipment										
Relinquished by <i>Logan Cranley</i>			Date/Time: <i>7-11-22 1125</i>	Company <i>Hyde</i>	Received By <i>John</i>	Date/Time <i>7-11-22 1125</i>	Company <i>Eurofins</i>								
Relinquished by <i>John</i>			Date/Time <i>7-11-22 1700</i>	Company <i>Eurofins</i>	Received By <i>Stephanie Hammondey</i>	Date/Time <i>7/12/22 1005</i>	Company <i>EETIA</i>								
Relinquished by			Date/Time	Company	Received By	Date/Time	Company								
Custody Seals Intact Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks		3.9+2.9									

Login Sample Receipt Checklist

Client: Hyde Environmental, Inc.

Job Number: 500-219203-1

Login Number: 219203

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

2926 and 2930 75th St., Kenosha, WI 53143

August 8, 2022

ATTACHMENT C

Vapor Intrusion Analytical Report



Environment Testing
America



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-219177-1

Client Project/Site: Ruffolo Phll

For:

Hyde Environmental, Inc.
W175 N11163 Stonewood Drive
Suite 110
Germantown, Wisconsin 53022

Attn: Logan Cranley

Jodie Bracken

Authorized for release by:

7/12/2022 4:52:48 PM

Jodie Bracken, Project Management Assistant II

Jodie.Bracken@et.eurofinsus.com

Designee for

Sandie Fredrick, Project Manager II

(920)261-1660

Sandra.Fredrick@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	14
QC Association	15
QC Sample Results	16
Chronicle	22
Certification Summary	23
Chain of Custody	24
Receipt Checklists	27
Canister QC Documents	29
Clean Canister Certification	30
Pre-Ship Certification	30
Clean Canister Data	31

Case Narrative

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Job ID: 500-219177-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-219177-1**

Comments

No additional comments.

Receipt

The samples were received on 7/9/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): V-2 (500-219177-2). The container labels list CANISTER ID# 34000189, while the COC lists CANISTER ID# 10896.

Air Toxics

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Hyde Environmental, Inc.

Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Client Sample ID: V-1

Lab Sample ID: 500-219177-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100		50	20	ppb v/v	10		TO-15	Total/NA
Chloroform	0.84	J	2.0	0.46	ppb v/v	10		TO-15	Total/NA
Hexane	9.2		8.0	2.3	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	32	J	50	9.8	ppb v/v	10		TO-15	Total/NA
Methyl tert-butyl ether	1.6	J	10	0.80	ppb v/v	10		TO-15	Total/NA
m-Xylene & p-Xylene	2.3	J	8.0	1.7	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	0.65	J	2.0	0.27	ppb v/v	10		TO-15	Total/NA
Toluene	2.2		2.0	0.93	ppb v/v	10		TO-15	Total/NA
1,1,1-Trichloroethane	1.4	J	2.0	0.39	ppb v/v	10		TO-15	Total/NA
Trichloroethene	160		2.0	0.24	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.2	J	2.0	0.47	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	240		120	48	ug/m3	10		TO-15	Total/NA
Chloroform	4.1	J	9.8	2.2	ug/m3	10		TO-15	Total/NA
Hexane	32		28	8.1	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	79	J	120	24	ug/m3	10		TO-15	Total/NA
Methyl tert-butyl ether	5.6	J	36	2.9	ug/m3	10		TO-15	Total/NA
m-Xylene & p-Xylene	10	J	35	7.4	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	4.4	J	14	1.8	ug/m3	10		TO-15	Total/NA
Toluene	8.4		7.5	3.5	ug/m3	10		TO-15	Total/NA
1,1,1-Trichloroethane	7.8	J	11	2.1	ug/m3	10		TO-15	Total/NA
Trichloroethene	880		11	1.3	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	5.9	J	9.8	2.3	ug/m3	10		TO-15	Total/NA

Client Sample ID: V-2

Lab Sample ID: 500-219177-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		25	10	ppb v/v	5		TO-15	Total/NA
Benzene	4.9		1.0	0.37	ppb v/v	5		TO-15	Total/NA
2-Butanone (MEK)	1.6	J	5.0	0.85	ppb v/v	5		TO-15	Total/NA
Carbon disulfide	1.4	J	2.5	0.65	ppb v/v	5		TO-15	Total/NA
Chloroform	1.1		1.0	0.23	ppb v/v	5		TO-15	Total/NA
Cyclohexane	5.9		2.5	0.18	ppb v/v	5		TO-15	Total/NA
Ethylbenzene	3.2		1.0	0.50	ppb v/v	5		TO-15	Total/NA
Hexane	12		4.0	1.2	ppb v/v	5		TO-15	Total/NA
Isopropyl alcohol	40		25	4.9	ppb v/v	5		TO-15	Total/NA
Isopropylbenzene	0.23	J	4.0	0.19	ppb v/v	5		TO-15	Total/NA
Methylene Chloride	1.3	J	2.5	0.85	ppb v/v	5		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	30		2.5	0.95	ppb v/v	5		TO-15	Total/NA
Methyl tert-butyl ether	1.2	J	5.0	0.40	ppb v/v	5		TO-15	Total/NA
m-Xylene & p-Xylene	11		4.0	0.85	ppb v/v	5		TO-15	Total/NA
o-Xylene	4.3		1.0	0.47	ppb v/v	5		TO-15	Total/NA
Tetrachloroethene	0.41	J	1.0	0.14	ppb v/v	5		TO-15	Total/NA
Toluene	6.6		1.0	0.47	ppb v/v	5		TO-15	Total/NA
1,1,1-Trichloroethane	1.4		1.0	0.20	ppb v/v	5		TO-15	Total/NA
Trichloroethene	110		1.0	0.12	ppb v/v	5		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.1		1.0	0.24	ppb v/v	5		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.0		1.0	0.22	ppb v/v	5		TO-15	Total/NA
Xylenes, Total	15		2.0	1.3	ppb v/v	5		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	360		59	24	ug/m3	5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Hyde Environmental, Inc.

Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Client Sample ID: V-2 (Continued)

Lab Sample ID: 500-219177-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	16		3.2	1.2	ug/m3	5		TO-15	Total/NA
2-Butanone (MEK)	4.6	J	15	2.5	ug/m3	5		TO-15	Total/NA
Carbon disulfide	4.4	J	7.8	2.0	ug/m3	5		TO-15	Total/NA
Chloroform	5.3		4.9	1.1	ug/m3	5		TO-15	Total/NA
Cyclohexane	20		8.6	0.60	ug/m3	5		TO-15	Total/NA
Ethylbenzene	14		4.3	2.2	ug/m3	5		TO-15	Total/NA
Hexane	41		14	4.1	ug/m3	5		TO-15	Total/NA
Isopropyl alcohol	99		61	12	ug/m3	5		TO-15	Total/NA
Isopropylbenzene	1.1	J	20	0.91	ug/m3	5		TO-15	Total/NA
Methylene Chloride	4.6	J	8.7	3.0	ug/m3	5		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	120		10	3.9	ug/m3	5		TO-15	Total/NA
Methyl tert-butyl ether	4.3	J	18	1.4	ug/m3	5		TO-15	Total/NA
m-Xylene & p-Xylene	49		17	3.7	ug/m3	5		TO-15	Total/NA
o-Xylene	19		4.3	2.0	ug/m3	5		TO-15	Total/NA
Tetrachloroethene	2.8	J	6.8	0.92	ug/m3	5		TO-15	Total/NA
Toluene	25		3.8	1.8	ug/m3	5		TO-15	Total/NA
1,1,1-Trichloroethane	7.5		5.5	1.1	ug/m3	5		TO-15	Total/NA
Trichloroethene	600		5.4	0.64	ug/m3	5		TO-15	Total/NA
1,2,4-Trimethylbenzene	15		4.9	1.2	ug/m3	5		TO-15	Total/NA
1,3,5-Trimethylbenzene	5.0		4.9	1.1	ug/m3	5		TO-15	Total/NA
Xylenes, Total	66		8.7	5.6	ug/m3	5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Eurofins Chicago

Sample Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo PhII

Job ID: 500-219177-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-219177-1	V-1	Air	07/08/22 12:30	07/09/22 10:00	Air Canister (6-Liter) #3286
500-219177-2	V-2	Air	07/08/22 12:40	07/09/22 10:00	Air Canister (6-Liter) #34000189

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Client Sample ID: V-1

Date Collected: 07/08/22 12:30

Date Received: 07/09/22 10:00

Sample Container: Summa Canister 6L

Lab Sample ID: 500-219177-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100		50	20	ppb v/v			07/11/22 14:07	10
Benzene	<0.74		2.0	0.74	ppb v/v			07/11/22 14:07	10
Benzyl chloride	<0.74		8.0	0.74	ppb v/v			07/11/22 14:07	10
Bromodichloromethane	<0.40		2.0	0.40	ppb v/v			07/11/22 14:07	10
Bromoform	<0.58		2.0	0.58	ppb v/v			07/11/22 14:07	10
Bromomethane	<0.52		2.0	0.52	ppb v/v			07/11/22 14:07	10
2-Butanone (MEK)	<1.7		10	1.7	ppb v/v			07/11/22 14:07	10
Carbon disulfide	<1.3		5.0	1.3	ppb v/v			07/11/22 14:07	10
Carbon tetrachloride	<0.32		2.0	0.32	ppb v/v			07/11/22 14:07	10
Chlorobenzene	<0.43		2.0	0.43	ppb v/v			07/11/22 14:07	10
Chloroethane	<2.5		8.0	2.5	ppb v/v			07/11/22 14:07	10
Chloroform	0.84 J		2.0	0.46	ppb v/v			07/11/22 14:07	10
Chloromethane	<1.2		5.0	1.2	ppb v/v			07/11/22 14:07	10
cis-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			07/11/22 14:07	10
cis-1,3-Dichloropropene	<0.20		2.0	0.20	ppb v/v			07/11/22 14:07	10
Cyclohexane	<0.35		5.0	0.35	ppb v/v			07/11/22 14:07	10
Chlorodibromomethane	<0.31		2.0	0.31	ppb v/v			07/11/22 14:07	10
1,2-Dibromoethane (EDB)	<0.46		2.0	0.46	ppb v/v			07/11/22 14:07	10
1,2-Dichlorobenzene	<0.70		2.0	0.70	ppb v/v			07/11/22 14:07	10
1,3-Dichlorobenzene	<0.89		2.0	0.89	ppb v/v			07/11/22 14:07	10
1,4-Dichlorobenzene	<0.95		2.0	0.95	ppb v/v			07/11/22 14:07	10
Dichlorodifluoromethane	<1.1		5.0	1.1	ppb v/v			07/11/22 14:07	10
1,1-Dichloroethane	<0.29		2.0	0.29	ppb v/v			07/11/22 14:07	10
1,2-Dichloroethane	<1.5		2.0	1.5	ppb v/v			07/11/22 14:07	10
1,1-Dichloroethene	<0.29		2.0	0.29	ppb v/v			07/11/22 14:07	10
1,2-Dichloropropane	<0.87		2.0	0.87	ppb v/v			07/11/22 14:07	10
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.55		2.0	0.55	ppb v/v			07/11/22 14:07	10
1,4-Dioxane	<17		50	17	ppb v/v			07/11/22 14:07	10
Ethylbenzene	<1.0		2.0	1.0	ppb v/v			07/11/22 14:07	10
Hexachlorobutadiene	<0.31		20	0.31	ppb v/v			07/11/22 14:07	10
Hexane	9.2		8.0	2.3	ppb v/v			07/11/22 14:07	10
Isopropyl alcohol	32 J		50	9.8	ppb v/v			07/11/22 14:07	10
Isopropylbenzene	<0.37		8.0	0.37	ppb v/v			07/11/22 14:07	10
Methylene Chloride	<1.7		5.0	1.7	ppb v/v			07/11/22 14:07	10
4-Methyl-2-pentanone (MIBK)	<1.9		5.0	1.9	ppb v/v			07/11/22 14:07	10
Methyl tert-butyl ether	1.6 J		10	0.80	ppb v/v			07/11/22 14:07	10
m-Xylene & p-Xylene	2.3 J		8.0	1.7	ppb v/v			07/11/22 14:07	10
Naphthalene	<1.7		5.0	1.7	ppb v/v			07/11/22 14:07	10
o-Xylene	<0.94		2.0	0.94	ppb v/v			07/11/22 14:07	10
Styrene	<0.32		2.0	0.32	ppb v/v			07/11/22 14:07	10
1,1,2,2-Tetrachloroethane	<0.43		2.0	0.43	ppb v/v			07/11/22 14:07	10
Tetrachloroethene	0.65 J		2.0	0.27	ppb v/v			07/11/22 14:07	10
Tetrahydrofuran	<12		50	12	ppb v/v			07/11/22 14:07	10
Toluene	2.2		2.0	0.93	ppb v/v			07/11/22 14:07	10
trans-1,2-Dichloroethene	<0.88		2.0	0.88	ppb v/v			07/11/22 14:07	10
trans-1,3-Dichloropropene	<0.89		2.0	0.89	ppb v/v			07/11/22 14:07	10
1,2,4-Trichlorobenzene	<1.9		20	1.9	ppb v/v			07/11/22 14:07	10
1,1,1-Trichloroethane	1.4 J		2.0	0.39	ppb v/v			07/11/22 14:07	10

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Client Sample ID: V-1

Date Collected: 07/08/22 12:30

Date Received: 07/09/22 10:00

Sample Container: Summa Canister 6L

Lab Sample ID: 500-219177-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.34		2.0	0.34	ppb v/v			07/11/22 14:07	10
Trichloroethene	160		2.0	0.24	ppb v/v			07/11/22 14:07	10
Trichlorofluoromethane	<0.52		2.0	0.52	ppb v/v			07/11/22 14:07	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.55		2.0	0.55	ppb v/v			07/11/22 14:07	10
1,2,4-Trimethylbenzene	1.2 J		2.0	0.47	ppb v/v			07/11/22 14:07	10
1,3,5-Trimethylbenzene	<0.44		2.0	0.44	ppb v/v			07/11/22 14:07	10
Vinyl acetate	<21		50	21	ppb v/v			07/11/22 14:07	10
Vinyl bromide	<0.85		2.0	0.85	ppb v/v			07/11/22 14:07	10
Vinyl chloride	<0.28		2.0	0.28	ppb v/v			07/11/22 14:07	10
Xylenes, Total	<2.6		4.0	2.6	ppb v/v			07/11/22 14:07	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	240		120	48	ug/m ³			07/11/22 14:07	10
Benzene	<2.4		6.4	2.4	ug/m ³			07/11/22 14:07	10
Benzyl chloride	<3.8		41	3.8	ug/m ³			07/11/22 14:07	10
Bromodichloromethane	<2.7		13	2.7	ug/m ³			07/11/22 14:07	10
Bromoform	<6.0		21	6.0	ug/m ³			07/11/22 14:07	10
Bromomethane	<2.0		7.8	2.0	ug/m ³			07/11/22 14:07	10
2-Butanone (MEK)	<5.0		29	5.0	ug/m ³			07/11/22 14:07	10
Carbon disulfide	<4.0		16	4.0	ug/m ³			07/11/22 14:07	10
Carbon tetrachloride	<2.0		13	2.0	ug/m ³			07/11/22 14:07	10
Chlorobenzene	<2.0		9.2	2.0	ug/m ³			07/11/22 14:07	10
Chloroethane	<6.6		21	6.6	ug/m ³			07/11/22 14:07	10
Chloroform	4.1 J		9.8	2.2	ug/m ³			07/11/22 14:07	10
Chloromethane	<2.5		10	2.5	ug/m ³			07/11/22 14:07	10
cis-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m ³			07/11/22 14:07	10
cis-1,3-Dichloropropene	<0.91		9.1	0.91	ug/m ³			07/11/22 14:07	10
Cyclohexane	<1.2		17	1.2	ug/m ³			07/11/22 14:07	10
Chlorodibromomethane	<2.6		17	2.6	ug/m ³			07/11/22 14:07	10
1,2-Dibromoethane (EDB)	<3.5		15	3.5	ug/m ³			07/11/22 14:07	10
1,2-Dichlorobenzene	<4.2		12	4.2	ug/m ³			07/11/22 14:07	10
1,3-Dichlorobenzene	<5.4		12	5.4	ug/m ³			07/11/22 14:07	10
1,4-Dichlorobenzene	<5.7		12	5.7	ug/m ³			07/11/22 14:07	10
Dichlorodifluoromethane	<5.4		25	5.4	ug/m ³			07/11/22 14:07	10
1,1-Dichloroethane	<1.2		8.1	1.2	ug/m ³			07/11/22 14:07	10
1,2-Dichloroethane	<6.1		8.1	6.1	ug/m ³			07/11/22 14:07	10
1,1-Dichloroethene	<1.1		7.9	1.1	ug/m ³			07/11/22 14:07	10
1,2-Dichloropropane	<4.0		9.2	4.0	ug/m ³			07/11/22 14:07	10
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<3.8		14	3.8	ug/m ³			07/11/22 14:07	10
1,4-Dioxane	<61		180	61	ug/m ³			07/11/22 14:07	10
Ethylbenzene	<4.3		8.7	4.3	ug/m ³			07/11/22 14:07	10
Hexachlorobutadiene	<3.3		210	3.3	ug/m ³			07/11/22 14:07	10
Hexane	32		28	8.1	ug/m ³			07/11/22 14:07	10
Isopropyl alcohol	79 J		120	24	ug/m ³			07/11/22 14:07	10
Isopropylbenzene	<1.8		39	1.8	ug/m ³			07/11/22 14:07	10
Methylene Chloride	<5.9		17	5.9	ug/m ³			07/11/22 14:07	10
4-Methyl-2-pentanone (MIBK)	<7.8		20	7.8	ug/m ³			07/11/22 14:07	10
Methyl tert-butyl ether	5.6 J		36	2.9	ug/m ³			07/11/22 14:07	10
m-Xylene & p-Xylene	10 J		35	7.4	ug/m ³			07/11/22 14:07	10

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Client Sample ID: V-1

Date Collected: 07/08/22 12:30

Date Received: 07/09/22 10:00

Sample Container: Summa Canister 6L

Lab Sample ID: 500-219177-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<8.9		26	8.9	ug/m3			07/11/22 14:07	10
o-Xylene	<4.1		8.7	4.1	ug/m3			07/11/22 14:07	10
Styrene	<1.4		8.5	1.4	ug/m3			07/11/22 14:07	10
1,1,2,2-Tetrachloroethane	<3.0		14	3.0	ug/m3			07/11/22 14:07	10
Tetrachloroethene	4.4 J		14	1.8	ug/m3			07/11/22 14:07	10
Tetrahydrofuran	<35		150	35	ug/m3			07/11/22 14:07	10
Toluene	8.4		7.5	3.5	ug/m3			07/11/22 14:07	10
trans-1,2-Dichloroethene	<3.5		7.9	3.5	ug/m3			07/11/22 14:07	10
trans-1,3-Dichloropropene	<4.0		9.1	4.0	ug/m3			07/11/22 14:07	10
1,2,4-Trichlorobenzene	<14		150	14	ug/m3			07/11/22 14:07	10
1,1,1-Trichloroethane	7.8 J		11	2.1	ug/m3			07/11/22 14:07	10
1,1,2-Trichloroethane	<1.9		11	1.9	ug/m3			07/11/22 14:07	10
Trichloroethene	880		11	1.3	ug/m3			07/11/22 14:07	10
Trichlorofluoromethane	<2.9		11	2.9	ug/m3			07/11/22 14:07	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.2		15	4.2	ug/m3			07/11/22 14:07	10
1,2,4-Trimethylbenzene	5.9 J		9.8	2.3	ug/m3			07/11/22 14:07	10
1,3,5-Trimethylbenzene	<2.2		9.8	2.2	ug/m3			07/11/22 14:07	10
Vinyl acetate	<74		180	74	ug/m3			07/11/22 14:07	10
Vinyl bromide	<3.7		8.7	3.7	ug/m3			07/11/22 14:07	10
Vinyl chloride	<0.72		5.1	0.72	ug/m3			07/11/22 14:07	10
Xylenes, Total	<11		17	11	ug/m3			07/11/22 14:07	10

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Client Sample ID: V-2

Date Collected: 07/08/22 12:40

Date Received: 07/09/22 10:00

Sample Container: Summa Canister 6L

Lab Sample ID: 500-219177-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	150		25	10	ppb v/v			07/11/22 15:01	5
Benzene	4.9		1.0	0.37	ppb v/v			07/11/22 15:01	5
Benzyl chloride	<0.37		4.0	0.37	ppb v/v			07/11/22 15:01	5
Bromodichloromethane	<0.20		1.0	0.20	ppb v/v			07/11/22 15:01	5
Bromoform	<0.29		1.0	0.29	ppb v/v			07/11/22 15:01	5
Bromomethane	<0.26		1.0	0.26	ppb v/v			07/11/22 15:01	5
2-Butanone (MEK)	1.6 J		5.0	0.85	ppb v/v			07/11/22 15:01	5
Carbon disulfide	1.4 J		2.5	0.65	ppb v/v			07/11/22 15:01	5
Carbon tetrachloride	<0.16		1.0	0.16	ppb v/v			07/11/22 15:01	5
Chlorobenzene	<0.22		1.0	0.22	ppb v/v			07/11/22 15:01	5
Chloroethane	<1.3		4.0	1.3	ppb v/v			07/11/22 15:01	5
Chloroform	1.1		1.0	0.23	ppb v/v			07/11/22 15:01	5
Chloromethane	<0.60		2.5	0.60	ppb v/v			07/11/22 15:01	5
cis-1,2-Dichloroethene	<0.17		1.0	0.17	ppb v/v			07/11/22 15:01	5
cis-1,3-Dichloropropene	<0.10		1.0	0.10	ppb v/v			07/11/22 15:01	5
Cyclohexane	5.9		2.5	0.18	ppb v/v			07/11/22 15:01	5
Chlorodibromomethane	<0.16		1.0	0.16	ppb v/v			07/11/22 15:01	5
1,2-Dibromoethane (EDB)	<0.23		1.0	0.23	ppb v/v			07/11/22 15:01	5
1,2-Dichlorobenzene	<0.35		1.0	0.35	ppb v/v			07/11/22 15:01	5
1,3-Dichlorobenzene	<0.45		1.0	0.45	ppb v/v			07/11/22 15:01	5
1,4-Dichlorobenzene	<0.48		1.0	0.48	ppb v/v			07/11/22 15:01	5
Dichlorodifluoromethane	<0.55		2.5	0.55	ppb v/v			07/11/22 15:01	5
1,1-Dichloroethane	<0.15		1.0	0.15	ppb v/v			07/11/22 15:01	5
1,2-Dichloroethane	<0.75		1.0	0.75	ppb v/v			07/11/22 15:01	5
1,1-Dichloroethene	<0.15		1.0	0.15	ppb v/v			07/11/22 15:01	5
1,2-Dichloropropane	<0.44		1.0	0.44	ppb v/v			07/11/22 15:01	5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.28		1.0	0.28	ppb v/v			07/11/22 15:01	5
1,4-Dioxane	<8.5		25	8.5	ppb v/v			07/11/22 15:01	5
Ethylbenzene	3.2		1.0	0.50	ppb v/v			07/11/22 15:01	5
Hexachlorobutadiene	<0.16		10	0.16	ppb v/v			07/11/22 15:01	5
Hexane	12		4.0	1.2	ppb v/v			07/11/22 15:01	5
Isopropyl alcohol	40		25	4.9	ppb v/v			07/11/22 15:01	5
Isopropylbenzene	0.23 J		4.0	0.19	ppb v/v			07/11/22 15:01	5
Methylene Chloride	1.3 J		2.5	0.85	ppb v/v			07/11/22 15:01	5
4-Methyl-2-pentanone (MIBK)	30		2.5	0.95	ppb v/v			07/11/22 15:01	5
Methyl tert-butyl ether	1.2 J		5.0	0.40	ppb v/v			07/11/22 15:01	5
m-Xylene & p-Xylene	11		4.0	0.85	ppb v/v			07/11/22 15:01	5
Naphthalene	<0.85		2.5	0.85	ppb v/v			07/11/22 15:01	5
o-Xylene	4.3		1.0	0.47	ppb v/v			07/11/22 15:01	5
Styrene	<0.16		1.0	0.16	ppb v/v			07/11/22 15:01	5
1,1,2,2-Tetrachloroethane	<0.22		1.0	0.22	ppb v/v			07/11/22 15:01	5
Tetrachloroethene	0.41 J		1.0	0.14	ppb v/v			07/11/22 15:01	5
Tetrahydrofuran	<6.0		25	6.0	ppb v/v			07/11/22 15:01	5
Toluene	6.6		1.0	0.47	ppb v/v			07/11/22 15:01	5
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ppb v/v			07/11/22 15:01	5
trans-1,3-Dichloropropene	<0.45		1.0	0.45	ppb v/v			07/11/22 15:01	5
1,2,4-Trichlorobenzene	<0.95		10	0.95	ppb v/v			07/11/22 15:01	5
1,1,1-Trichloroethane	1.4		1.0	0.20	ppb v/v			07/11/22 15:01	5

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Client Sample ID: V-2

Date Collected: 07/08/22 12:40

Date Received: 07/09/22 10:00

Sample Container: Summa Canister 6L

Lab Sample ID: 500-219177-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.17		1.0	0.17	ppb v/v			07/11/22 15:01	5
Trichloroethene	110		1.0	0.12	ppb v/v			07/11/22 15:01	5
Trichlorofluoromethane	<0.26		1.0	0.26	ppb v/v			07/11/22 15:01	5
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.28		1.0	0.28	ppb v/v			07/11/22 15:01	5
1,2,4-Trimethylbenzene	3.1		1.0	0.24	ppb v/v			07/11/22 15:01	5
1,3,5-Trimethylbenzene	1.0		1.0	0.22	ppb v/v			07/11/22 15:01	5
Vinyl acetate	<11		25	11	ppb v/v			07/11/22 15:01	5
Vinyl bromide	<0.43		1.0	0.43	ppb v/v			07/11/22 15:01	5
Vinyl chloride	<0.14		1.0	0.14	ppb v/v			07/11/22 15:01	5
Xylenes, Total	15		2.0	1.3	ppb v/v			07/11/22 15:01	5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	360		59	24	ug/m ³			07/11/22 15:01	5
Benzene	16		3.2	1.2	ug/m ³			07/11/22 15:01	5
Benzyl chloride	<1.9		21	1.9	ug/m ³			07/11/22 15:01	5
Bromodichloromethane	<1.3		6.7	1.3	ug/m ³			07/11/22 15:01	5
Bromoform	<3.0		10	3.0	ug/m ³			07/11/22 15:01	5
Bromomethane	<1.0		3.9	1.0	ug/m ³			07/11/22 15:01	5
2-Butanone (MEK)	4.6 J		15	2.5	ug/m ³			07/11/22 15:01	5
Carbon disulfide	4.4 J		7.8	2.0	ug/m ³			07/11/22 15:01	5
Carbon tetrachloride	<1.0		6.3	1.0	ug/m ³			07/11/22 15:01	5
Chlorobenzene	<0.99		4.6	0.99	ug/m ³			07/11/22 15:01	5
Chloroethane	<3.3		11	3.3	ug/m ³			07/11/22 15:01	5
Chloroform	5.3		4.9	1.1	ug/m ³			07/11/22 15:01	5
Chloromethane	<1.2		5.2	1.2	ug/m ³			07/11/22 15:01	5
cis-1,2-Dichloroethene	<0.65		4.0	0.65	ug/m ³			07/11/22 15:01	5
cis-1,3-Dichloropropene	<0.45		4.5	0.45	ug/m ³			07/11/22 15:01	5
Cyclohexane	20		8.6	0.60	ug/m ³			07/11/22 15:01	5
Chlorodibromomethane	<1.3		8.5	1.3	ug/m ³			07/11/22 15:01	5
1,2-Dibromoethane (EDB)	<1.8		7.7	1.8	ug/m ³			07/11/22 15:01	5
1,2-Dichlorobenzene	<2.1		6.0	2.1	ug/m ³			07/11/22 15:01	5
1,3-Dichlorobenzene	<2.7		6.0	2.7	ug/m ³			07/11/22 15:01	5
1,4-Dichlorobenzene	<2.9		6.0	2.9	ug/m ³			07/11/22 15:01	5
Dichlorodifluoromethane	<2.7		12	2.7	ug/m ³			07/11/22 15:01	5
1,1-Dichloroethane	<0.59		4.0	0.59	ug/m ³			07/11/22 15:01	5
1,2-Dichloroethane	<3.0		4.0	3.0	ug/m ³			07/11/22 15:01	5
1,1-Dichloroethene	<0.57		4.0	0.57	ug/m ³			07/11/22 15:01	5
1,2-Dichloropropane	<2.0		4.6	2.0	ug/m ³			07/11/22 15:01	5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<1.9		7.0	1.9	ug/m ³			07/11/22 15:01	5
1,4-Dioxane	<31		90	31	ug/m ³			07/11/22 15:01	5
Ethylbenzene	14		4.3	2.2	ug/m ³			07/11/22 15:01	5
Hexachlorobutadiene	<1.7		110	1.7	ug/m ³			07/11/22 15:01	5
Hexane	41		14	4.1	ug/m ³			07/11/22 15:01	5
Isopropyl alcohol	99		61	12	ug/m ³			07/11/22 15:01	5
Isopropylbenzene	1.1 J		20	0.91	ug/m ³			07/11/22 15:01	5
Methylene Chloride	4.6 J		8.7	3.0	ug/m ³			07/11/22 15:01	5
4-Methyl-2-pentanone (MIBK)	120		10	3.9	ug/m ³			07/11/22 15:01	5
Methyl tert-butyl ether	4.3 J		18	1.4	ug/m ³			07/11/22 15:01	5
m-Xylene & p-Xylene	49		17	3.7	ug/m ³			07/11/22 15:01	5

Eurofins Chicago

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Client Sample ID: V-2

Date Collected: 07/08/22 12:40

Date Received: 07/09/22 10:00

Sample Container: Summa Canister 6L

Lab Sample ID: 500-219177-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<4.5		13	4.5	ug/m3			07/11/22 15:01	5
o-Xylene	19		4.3	2.0	ug/m3			07/11/22 15:01	5
Styrene	<0.68		4.3	0.68	ug/m3			07/11/22 15:01	5
1,1,2,2-Tetrachloroethane	<1.5		6.9	1.5	ug/m3			07/11/22 15:01	5
Tetrachloroethene	2.8 J		6.8	0.92	ug/m3			07/11/22 15:01	5
Tetrahydrofuran	<18		74	18	ug/m3			07/11/22 15:01	5
Toluene	25		3.8	1.8	ug/m3			07/11/22 15:01	5
trans-1,2-Dichloroethene	<1.7		4.0	1.7	ug/m3			07/11/22 15:01	5
trans-1,3-Dichloropropene	<2.0		4.5	2.0	ug/m3			07/11/22 15:01	5
1,2,4-Trichlorobenzene	<7.1		74	7.1	ug/m3			07/11/22 15:01	5
1,1,1-Trichloroethane	7.5		5.5	1.1	ug/m3			07/11/22 15:01	5
1,1,2-Trichloroethane	<0.93		5.5	0.93	ug/m3			07/11/22 15:01	5
Trichloroethene	600		5.4	0.64	ug/m3			07/11/22 15:01	5
Trichlorofluoromethane	<1.5		5.6	1.5	ug/m3			07/11/22 15:01	5
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.1		7.7	2.1	ug/m3			07/11/22 15:01	5
1,2,4-Trimethylbenzene	15		4.9	1.2	ug/m3			07/11/22 15:01	5
1,3,5-Trimethylbenzene	5.0		4.9	1.1	ug/m3			07/11/22 15:01	5
Vinyl acetate	<37		88	37	ug/m3			07/11/22 15:01	5
Vinyl bromide	<1.9		4.4	1.9	ug/m3			07/11/22 15:01	5
Vinyl chloride	<0.36		2.6	0.36	ug/m3			07/11/22 15:01	5
Xylenes, Total	66		8.7	5.6	ug/m3			07/11/22 15:01	5

Definitions/Glossary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Air - GC/MS VOA

Analysis Batch: 181512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219177-1	V-1	Total/NA	Air	TO-15	1
500-219177-2	V-2	Total/NA	Air	TO-15	2
MB 200-181512/5	Method Blank	Total/NA	Air	TO-15	3
LCS 200-181512/4	Lab Control Sample	Total/NA	Air	TO-15	4

QC Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-181512/5

Matrix: Air

Analysis Batch: 181512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2.0		5.0	2.0	ppb v/v			07/11/22 10:20	1
Benzene	<0.074		0.20	0.074	ppb v/v			07/11/22 10:20	1
Benzyl chloride	<0.074		0.80	0.074	ppb v/v			07/11/22 10:20	1
Bromodichloromethane	<0.040		0.20	0.040	ppb v/v			07/11/22 10:20	1
Bromoform	<0.058		0.20	0.058	ppb v/v			07/11/22 10:20	1
Bromomethane	<0.052		0.20	0.052	ppb v/v			07/11/22 10:20	1
2-Butanone (MEK)	<0.17		1.0	0.17	ppb v/v			07/11/22 10:20	1
Carbon disulfide	<0.13		0.50	0.13	ppb v/v			07/11/22 10:20	1
Carbon tetrachloride	<0.032		0.20	0.032	ppb v/v			07/11/22 10:20	1
Chlorobenzene	<0.043		0.20	0.043	ppb v/v			07/11/22 10:20	1
Chloroethane	<0.25		0.80	0.25	ppb v/v			07/11/22 10:20	1
Chloroform	<0.046		0.20	0.046	ppb v/v			07/11/22 10:20	1
Chloromethane	<0.12		0.50	0.12	ppb v/v			07/11/22 10:20	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			07/11/22 10:20	1
cis-1,3-Dichloropropene	<0.020		0.20	0.020	ppb v/v			07/11/22 10:20	1
Cyclohexane	<0.035		0.50	0.035	ppb v/v			07/11/22 10:20	1
Chlorodibromomethane	<0.031		0.20	0.031	ppb v/v			07/11/22 10:20	1
1,2-Dibromoethane (EDB)	<0.046		0.20	0.046	ppb v/v			07/11/22 10:20	1
1,2-Dichlorobenzene	<0.070		0.20	0.070	ppb v/v			07/11/22 10:20	1
1,3-Dichlorobenzene	<0.089		0.20	0.089	ppb v/v			07/11/22 10:20	1
1,4-Dichlorobenzene	<0.095		0.20	0.095	ppb v/v			07/11/22 10:20	1
Dichlorodifluoromethane	<0.11		0.50	0.11	ppb v/v			07/11/22 10:20	1
1,1-Dichloroethane	<0.029		0.20	0.029	ppb v/v			07/11/22 10:20	1
1,2-Dichloroethane	<0.15		0.20	0.15	ppb v/v			07/11/22 10:20	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			07/11/22 10:20	1
1,2-Dichloropropane	<0.087		0.20	0.087	ppb v/v			07/11/22 10:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.055		0.20	0.055	ppb v/v			07/11/22 10:20	1
1,4-Dioxane	<1.7		5.0	1.7	ppb v/v			07/11/22 10:20	1
Ethylbenzene	<0.10		0.20	0.10	ppb v/v			07/11/22 10:20	1
Hexachlorobutadiene	<0.031		2.0	0.031	ppb v/v			07/11/22 10:20	1
Hexane	<0.23		0.80	0.23	ppb v/v			07/11/22 10:20	1
Isopropyl alcohol	<0.98		5.0	0.98	ppb v/v			07/11/22 10:20	1
Isopropylbenzene	<0.037		0.80	0.037	ppb v/v			07/11/22 10:20	1
Methylene Chloride	<0.17		0.50	0.17	ppb v/v			07/11/22 10:20	1
4-Methyl-2-pentanone (MIBK)	<0.19		0.50	0.19	ppb v/v			07/11/22 10:20	1
Methyl tert-butyl ether	<0.080		1.0	0.080	ppb v/v			07/11/22 10:20	1
m-Xylene & p-Xylene	<0.17		0.80	0.17	ppb v/v			07/11/22 10:20	1
Naphthalene	<0.17		0.50	0.17	ppb v/v			07/11/22 10:20	1
o-Xylene	<0.094		0.20	0.094	ppb v/v			07/11/22 10:20	1
Styrene	<0.032		0.20	0.032	ppb v/v			07/11/22 10:20	1
1,1,2,2-Tetrachloroethane	<0.043		0.20	0.043	ppb v/v			07/11/22 10:20	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			07/11/22 10:20	1
Tetrahydrofuran	<1.2		5.0	1.2	ppb v/v			07/11/22 10:20	1
Toluene	<0.093		0.20	0.093	ppb v/v			07/11/22 10:20	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			07/11/22 10:20	1
trans-1,3-Dichloropropene	<0.089		0.20	0.089	ppb v/v			07/11/22 10:20	1
1,2,4-Trichlorobenzene	<0.19		2.0	0.19	ppb v/v			07/11/22 10:20	1
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			07/11/22 10:20	1

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-181512/5

Matrix: Air

Analysis Batch: 181512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifer									
1,1,2-Trichloroethane	<0.034		0.20		0.034	ppb v/v			07/11/22 10:20		1
Trichloroethene	<0.024		0.20		0.024	ppb v/v			07/11/22 10:20		1
Trichlorofluoromethane	<0.052		0.20		0.052	ppb v/v			07/11/22 10:20		1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.055		0.20		0.055	ppb v/v			07/11/22 10:20		1
1,2,4-Trimethylbenzene	<0.047		0.20		0.047	ppb v/v			07/11/22 10:20		1
1,3,5-Trimethylbenzene	<0.044		0.20		0.044	ppb v/v			07/11/22 10:20		1
Vinyl acetate	<2.1		5.0		2.1	ppb v/v			07/11/22 10:20		1
Vinyl bromide	<0.085		0.20		0.085	ppb v/v			07/11/22 10:20		1
Vinyl chloride	<0.028		0.20		0.028	ppb v/v			07/11/22 10:20		1
Xylenes, Total	<0.26		0.40		0.26	ppb v/v			07/11/22 10:20		1
Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifer									
Acetone	<4.8		12		4.8	ug/m ³			07/11/22 10:20		1
Benzene	<0.24		0.64		0.24	ug/m ³			07/11/22 10:20		1
Benzyl chloride	<0.38		4.1		0.38	ug/m ³			07/11/22 10:20		1
Bromodichloromethane	<0.27		1.3		0.27	ug/m ³			07/11/22 10:20		1
Bromoform	<0.60		2.1		0.60	ug/m ³			07/11/22 10:20		1
Bromomethane	<0.20		0.78		0.20	ug/m ³			07/11/22 10:20		1
2-Butanone (MEK)	<0.50		2.9		0.50	ug/m ³			07/11/22 10:20		1
Carbon disulfide	<0.40		1.6		0.40	ug/m ³			07/11/22 10:20		1
Carbon tetrachloride	<0.20		1.3		0.20	ug/m ³			07/11/22 10:20		1
Chlorobenzene	<0.20		0.92		0.20	ug/m ³			07/11/22 10:20		1
Chloroethane	<0.66		2.1		0.66	ug/m ³			07/11/22 10:20		1
Chloroform	<0.22		0.98		0.22	ug/m ³			07/11/22 10:20		1
Chloromethane	<0.25		1.0		0.25	ug/m ³			07/11/22 10:20		1
cis-1,2-Dichloroethene	<0.13		0.79		0.13	ug/m ³			07/11/22 10:20		1
cis-1,3-Dichloropropene	<0.091		0.91		0.091	ug/m ³			07/11/22 10:20		1
Cyclohexane	<0.12		1.7		0.12	ug/m ³			07/11/22 10:20		1
Chlorodibromomethane	<0.26		1.7		0.26	ug/m ³			07/11/22 10:20		1
1,2-Dibromoethane (EDB)	<0.35		1.5		0.35	ug/m ³			07/11/22 10:20		1
1,2-Dichlorobenzene	<0.42		1.2		0.42	ug/m ³			07/11/22 10:20		1
1,3-Dichlorobenzene	<0.54		1.2		0.54	ug/m ³			07/11/22 10:20		1
1,4-Dichlorobenzene	<0.57		1.2		0.57	ug/m ³			07/11/22 10:20		1
Dichlorodifluoromethane	<0.54		2.5		0.54	ug/m ³			07/11/22 10:20		1
1,1-Dichloroethane	<0.12		0.81		0.12	ug/m ³			07/11/22 10:20		1
1,2-Dichloroethane	<0.61		0.81		0.61	ug/m ³			07/11/22 10:20		1
1,1-Dichloroethene	<0.11		0.79		0.11	ug/m ³			07/11/22 10:20		1
1,2-Dichloropropane	<0.40		0.92		0.40	ug/m ³			07/11/22 10:20		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<0.38		1.4		0.38	ug/m ³			07/11/22 10:20		1
1,4-Dioxane	<6.1		18		6.1	ug/m ³			07/11/22 10:20		1
Ethylbenzene	<0.43		0.87		0.43	ug/m ³			07/11/22 10:20		1
Hexachlorobutadiene	<0.33		21		0.33	ug/m ³			07/11/22 10:20		1
Hexane	<0.81		2.8		0.81	ug/m ³			07/11/22 10:20		1
Isopropyl alcohol	<2.4		12		2.4	ug/m ³			07/11/22 10:20		1
Isopropylbenzene	<0.18		3.9		0.18	ug/m ³			07/11/22 10:20		1
Methylene Chloride	<0.59		1.7		0.59	ug/m ³			07/11/22 10:20		1
4-Methyl-2-pentanone (MIBK)	<0.78		2.0		0.78	ug/m ³			07/11/22 10:20		1
Methyl tert-butyl ether	<0.29		3.6		0.29	ug/m ³			07/11/22 10:20		1
m-Xylene & p-Xylene	<0.74		3.5		0.74	ug/m ³			07/11/22 10:20		1

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.

Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-181512/5

Matrix: Air

Analysis Batch: 181512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Dil Fac						
	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed
Naphthalene	<0.89		1	2.6	0.89	ug/m3		07/11/22 10:20	
o-Xylene	<0.41		1	0.87	0.41	ug/m3		07/11/22 10:20	
Styrene	<0.14		1	0.85	0.14	ug/m3		07/11/22 10:20	
1,1,2,2-Tetrachloroethane	<0.30		1	1.4	0.30	ug/m3		07/11/22 10:20	
Tetrachloroethene	<0.18		1	1.4	0.18	ug/m3		07/11/22 10:20	
Tetrahydrofuran	<3.5		1	15	3.5	ug/m3		07/11/22 10:20	
Toluene	<0.35		1	0.75	0.35	ug/m3		07/11/22 10:20	
trans-1,2-Dichloroethene	<0.35		1	0.79	0.35	ug/m3		07/11/22 10:20	
trans-1,3-Dichloropropene	<0.40		1	0.91	0.40	ug/m3		07/11/22 10:20	
1,2,4-Trichlorobenzene	<1.4		1	15	1.4	ug/m3		07/11/22 10:20	
1,1,1-Trichloroethane	<0.21		1	1.1	0.21	ug/m3		07/11/22 10:20	
1,1,2-Trichloroethane	<0.19		1	1.1	0.19	ug/m3		07/11/22 10:20	
Trichloroethene	<0.13		1	1.1	0.13	ug/m3		07/11/22 10:20	
Trichlorofluoromethane	<0.29		1	1.1	0.29	ug/m3		07/11/22 10:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.42		1	1.5	0.42	ug/m3		07/11/22 10:20	
1,2,4-Trimethylbenzene	<0.23		1	0.98	0.23	ug/m3		07/11/22 10:20	
1,3,5-Trimethylbenzene	<0.22		1	0.98	0.22	ug/m3		07/11/22 10:20	
Vinyl acetate	<7.4		1	18	7.4	ug/m3		07/11/22 10:20	
Vinyl bromide	<0.37		1	0.87	0.37	ug/m3		07/11/22 10:20	
Vinyl chloride	<0.072		1	0.51	0.072	ug/m3		07/11/22 10:20	
Xylenes, Total	<1.1		1	1.7	1.1	ug/m3		07/11/22 10:20	

Lab Sample ID: LCS 200-181512/4

Matrix: Air

Analysis Batch: 181512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	%Rec		
	Added	Result	Qualifier	Unit	D	Limits
Acetone	10.0	11.5		ppb v/v	115	54 - 154
Benzene	10.0	9.84		ppb v/v	98	73 - 119
Benzyl chloride	10.0	9.74		ppb v/v	97	60 - 136
Bromodichloromethane	10.0	9.74		ppb v/v	97	75 - 127
Bromoform	10.0	10.4		ppb v/v	104	53 - 149
Bromomethane	10.0	11.1		ppb v/v	111	72 - 124
2-Butanone (MEK)	10.0	9.71		ppb v/v	97	72 - 124
Carbon disulfide	10.0	10.6		ppb v/v	106	71 - 138
Carbon tetrachloride	10.0	10.5		ppb v/v	105	71 - 133
Chlorobenzene	10.0	9.88		ppb v/v	99	76 - 119
Chloroethane	10.0	11.5		ppb v/v	115	68 - 130
Chloroform	10.0	9.85		ppb v/v	99	73 - 124
Chloromethane	10.0	11.7		ppb v/v	117	56 - 141
cis-1,2-Dichloroethene	10.0	9.78		ppb v/v	98	72 - 121
cis-1,3-Dichloropropene	10.0	9.58		ppb v/v	96	74 - 125
Cyclohexane	10.0	10.1		ppb v/v	101	76 - 124
Chlorodibromomethane	10.0	10.4		ppb v/v	104	73 - 125
1,2-Dibromoethane (EDB)	10.0	10.1		ppb v/v	101	78 - 122
1,2-Dichlorobenzene	10.0	9.95		ppb v/v	100	68 - 129
1,3-Dichlorobenzene	10.0	10.1		ppb v/v	101	69 - 131
1,4-Dichlorobenzene	10.0	9.98		ppb v/v	100	67 - 132
Dichlorodifluoromethane	10.0	11.2		ppb v/v	112	61 - 142

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.

Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-181512/4

Matrix: Air

Analysis Batch: 181512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethane	10.0	9.95		ppb v/v	99	66 - 130	
1,2-Dichloroethane	10.0	10.3		ppb v/v	104	68 - 135	
1,1-Dichloroethene	10.0	9.89		ppb v/v	99	68 - 120	
1,2-Dichloropropane	10.0	9.48		ppb v/v	95	69 - 128	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10.0	11.2		ppb v/v	112	71 - 141	
1,4-Dioxane	10.0	9.65		ppb v/v	97	66 - 129	
Ethylbenzene	10.0	9.74		ppb v/v	97	74 - 122	
Hexachlorobutadiene	10.0	10.9		ppb v/v	109	58 - 130	
Hexane	10.0	10.3		ppb v/v	103	63 - 138	
Isopropyl alcohol	10.0	11.1		ppb v/v	111	53 - 142	
Isopropylbenzene	10.0	9.84		ppb v/v	98	73 - 123	
Methylene Chloride	10.0	10.9		ppb v/v	109	59 - 137	
4-Methyl-2-pentanone (MIBK)	10.0	9.54		ppb v/v	95	58 - 144	
Methyl tert-butyl ether	10.0	10.3		ppb v/v	103	70 - 127	
m-Xylene & p-Xylene	20.0	20.4		ppb v/v	102	76 - 121	
Naphthalene	10.0	10.1		ppb v/v	101	50 - 150	
o-Xylene	10.0	10.1		ppb v/v	101	73 - 123	
Styrene	10.0	9.93		ppb v/v	99	74 - 125	
1,1,2,2-Tetrachloroethane	10.0	9.58		ppb v/v	96	74 - 126	
Tetrachloroethene	10.0	10.4		ppb v/v	104	70 - 125	
Tetrahydrofuran	10.0	11.5		ppb v/v	115	60 - 149	
Toluene	10.0	10.1		ppb v/v	101	75 - 122	
trans-1,2-Dichloroethene	10.0	10.6		ppb v/v	106	69 - 137	
trans-1,3-Dichloropropene	10.0	9.70		ppb v/v	97	74 - 128	
1,2,4-Trichlorobenzene	10.0	10.7		ppb v/v	107	50 - 150	
1,1,1-Trichloroethane	10.0	10.3		ppb v/v	103	72 - 127	
1,1,2-Trichloroethane	10.0	9.78		ppb v/v	98	75 - 126	
Trichloroethene	10.0	9.06		ppb v/v	91	73 - 122	
Trichlorofluoromethane	10.0	10.7		ppb v/v	107	70 - 129	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.2		ppb v/v	102	70 - 121	
1,2,4-Trimethylbenzene	10.0	9.83		ppb v/v	98	71 - 129	
1,3,5-Trimethylbenzene	10.0	9.91		ppb v/v	99	72 - 126	
Vinyl acetate	10.0	11.8		ppb v/v	118	59 - 149	
Vinyl bromide	10.0	10.6		ppb v/v	107	75 - 125	
Vinyl chloride	10.0	11.3		ppb v/v	113	61 - 135	
Xylenes, Total	30.0	30.5		ppb v/v	102	75 - 122	
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	24	27.4		ug/m3	115	54 - 154	
Benzene	32	31.4		ug/m3	98	73 - 119	
Benzyl chloride	52	50.4		ug/m3	97	60 - 136	
Bromodichloromethane	67	65.3		ug/m3	97	75 - 127	
Bromoform	100	107		ug/m3	104	53 - 149	
Bromomethane	39	43.3		ug/m3	111	72 - 124	
2-Butanone (MEK)	29	28.6		ug/m3	97	72 - 124	
Carbon disulfide	31	33.1		ug/m3	106	71 - 138	
Carbon tetrachloride	63	66.2		ug/m3	105	71 - 133	

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.

Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-181512/4

Matrix: Air

Analysis Batch: 181512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chlorobenzene	46	45.5		ug/m3	99	76 - 119	
Chloroethane	26	30.2		ug/m3	115	68 - 130	
Chloroform	49	48.1		ug/m3	99	73 - 124	
Chloromethane	21	24.2		ug/m3	117	56 - 141	
cis-1,2-Dichloroethene	40	38.8		ug/m3	98	72 - 121	
cis-1,3-Dichloropropene	45	43.5		ug/m3	96	74 - 125	
Cyclohexane	34	34.6		ug/m3	101	76 - 124	
Chlorodibromomethane	85	88.5		ug/m3	104	73 - 125	
1,2-Dibromoethane (EDB)	77	77.5		ug/m3	101	78 - 122	
1,2-Dichlorobenzene	60	59.8		ug/m3	100	68 - 129	
1,3-Dichlorobenzene	60	60.4		ug/m3	101	69 - 131	
1,4-Dichlorobenzene	60	60.0		ug/m3	100	67 - 132	
Dichlorodifluoromethane	49	55.3		ug/m3	112	61 - 142	
1,1-Dichloroethane	40	40.3		ug/m3	99	66 - 130	
1,2-Dichloroethane	40	41.9		ug/m3	104	68 - 135	
1,1-Dichloroethene	40	39.2		ug/m3	99	68 - 120	
1,2-Dichloropropane	46	43.8		ug/m3	95	69 - 128	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	70	78.2		ug/m3	112	71 - 141	
1,4-Dioxane	36	34.8		ug/m3	97	66 - 129	
Ethylbenzene	43	42.3		ug/m3	97	74 - 122	
Hexachlorobutadiene	110	116		ug/m3	109	58 - 130	
Hexane	35	36.4		ug/m3	103	63 - 138	
Isopropyl alcohol	25	27.3		ug/m3	111	53 - 142	
Isopropylbenzene	49	48.4		ug/m3	98	73 - 123	
Methylene Chloride	35	37.9		ug/m3	109	59 - 137	
4-Methyl-2-pentanone (MIBK)	41	39.1		ug/m3	95	58 - 144	
Methyl tert-butyl ether	36	37.2		ug/m3	103	70 - 127	
m-Xylene & p-Xylene	87	88.5		ug/m3	102	76 - 121	
Naphthalene	52	53.1		ug/m3	101	50 - 150	
o-Xylene	43	44.1		ug/m3	101	73 - 123	
Styrene	43	42.3		ug/m3	99	74 - 125	
1,1,2,2-Tetrachloroethane	69	65.8		ug/m3	96	74 - 126	
Tetrachloroethene	68	70.6		ug/m3	104	70 - 125	
Tetrahydrofuran	29	33.9		ug/m3	115	60 - 149	
Toluene	38	38.0		ug/m3	101	75 - 122	
trans-1,2-Dichloroethene	40	42.1		ug/m3	106	69 - 137	
trans-1,3-Dichloropropene	45	44.0		ug/m3	97	74 - 128	
1,2,4-Trichlorobenzene	74	79.7		ug/m3	107	50 - 150	
1,1,1-Trichloroethane	55	56.2		ug/m3	103	72 - 127	
1,1,2-Trichloroethane	55	53.4		ug/m3	98	75 - 126	
Trichloroethene	54	48.7		ug/m3	91	73 - 122	
Trichlorofluoromethane	56	59.9		ug/m3	107	70 - 129	
1,1,2-Trichloro-1,2,2-trifluoroethane	77	77.9		ug/m3	102	70 - 121	
1,2,4-Trimethylbenzene	49	48.3		ug/m3	98	71 - 129	
1,3,5-Trimethylbenzene	49	48.7		ug/m3	99	72 - 126	
Vinyl acetate	35	41.4		ug/m3	118	59 - 149	
Vinyl bromide	44	46.6		ug/m3	107	75 - 125	

Eurofins Chicago

QC Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-181512/4

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Matrix: Air

Analysis Batch: 181512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	26	28.9		ug/m3	113	61 - 135	
Xylenes, Total	130	132		ug/m3	102	75 - 122	

Lab Chronicle

Client: Hyde Environmental, Inc.
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Client Sample ID: V-1

Date Collected: 07/08/22 12:30

Date Received: 07/09/22 10:00

Lab Sample ID: 500-219177-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	181512	07/11/22 14:07	K1P	TAL BUR

Client Sample ID: V-2

Date Collected: 07/08/22 12:40

Date Received: 07/09/22 10:00

Lab Sample ID: 500-219177-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		5	181512	07/11/22 15:01	K1P	TAL BUR

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Hyde Environmental, Inc.

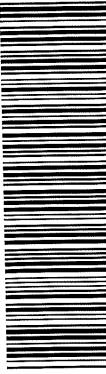
Project/Site: Ruffolo Phll

Job ID: 500-219177-1

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-23
Florida	NELAP	E87467	06-30-23
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-23
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-22



5530 Community Drive
Suite 11
South Burlington, VT 05403-6809

Canister Samples Chain of Custody Record

TestAmerica Laboratories Inc. assumes no liability with respect to the collection and shipment of these samples.

South Burlington, VT 05403-6809
phone 802 660 1990 fax 802.660.1919

Client Contact Information		Project Manager: Logan Cranley		Samples Collected By: Logan Cranley			
Company Name:	Logan Environmental	Phone:	509-466-3000	COC No:	_____ of _____ COCs		
Address:	1515 N Stonewood Dr.	Email:	Logan@logane.com	TALS Project #:			
City/State/Zip:	Spokane Valley WA 99202	Site Contact:		For Lab Use Only:			
Phone:	262-520-1226	Fax:		Walk-in Client:			
FAX:				Lab Sampling			
Project Name:	Ruffolo Apt	Analysis Turnaround Time		Job / SPG No:			
Site/Location:	Keweenaw, WI	Standard (Specify)		Other (Please specify in notes section)			
PO #:		Rush (Specify):		Soil Vapor Extraction (SVE)			
				Landfill Gases			
				Soil Gases			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EP A 15/16			
				ASTM D-1946			
				EP A 25C			
				EP A 3C			
				TO-15 SIM			
				TO-14/15 (Standard / Low Level)			
				Sample Specific Notes:			
Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Flow Controller ID	Canister ID
V-1	7-8-22	1200	7-8-22	1230	-30	-6	5995 3286 ✓
V-2	✓	1210	✓	240	-29	-7	7784 10896 ✓

Special Instructions/QC Requirements & Comments:

Samples Shipped by: Logan Cranley Date / Time: 7-8-22 1400 Samples Received by: Logan Cranley Date / Time: 7-8-22 1400 Condition: Lab Use Only

Samples Relinquished by: Relinquished by: Received by: Shipper Name: Opened by:

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

7/12/2022

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16



Environment Testing
TestAmerica

Part # 159469-434 MTW EXP 01/23

ORIGIN ID:BTVA (262) 250-1226
LOGAN CRANLEY
HYDE ENVIRONMENTAL, INC.
W175 N11163 STONEWOOD DRIVE
SUITE 110
GERMANTOWN, WI 53022
UNITED STATES US

SHIP DATE: 02JUL22
ACTWTG: 10.00 LB MAN
CAD: 000890364/CAFE3612

TO **SAMPLE MANAGEMENT**
EUROFINS TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 923-1068
REF: S500 - 103356

RMA:



FedEx
TRK# 0221 5849 1882 2180

SATURDAY 12:00PM
PRIORITY OVERNIGHT

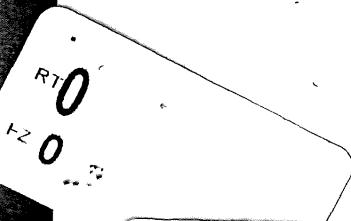
05403
VT-US BTV

Part # 156977-435 HRDB EXP 06/23

XO BTVA



#4011644 07/08 581J2/0A92/FE4A





330 Community Drive
Suite 11
South Burlington, VT 05403-6809
Phone 802.660.1990 fax 802.660.1919

Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples. TestAmerica Laboratories, Inc. is not responsible for damage or loss of samples during collection, transport, or storage. Samples must be collected and transported in accordance with the instructions provided by the laboratory.

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

7/12/2022

Login Sample Receipt Checklist

Client: Hyde Environmental, Inc.

Job Number: 500-219177-1

Login Number: 219177

List Source: Eurofins Chicago

List Number: 1

Creator: Beane, John P

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	N/A	Not present	7
Sample custody seals, if present, are intact.	N/A	Not Present	8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	N/A	Thermal preservation not required.	10
Cooler Temperature is acceptable.	True		11
Cooler Temperature is recorded.	N/A	Thermal preservation not required.	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		15
Is the Field Sampler's name present on COC?	True		16
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Login Sample Receipt Checklist

Client: Hyde Environmental, Inc.

Job Number: 500-219177-1

Login Number: 219177

List Source: Eurofins Burlington

List Number: 2

List Creation: 07/09/22 12:29 PM

Creator: Beane, John P

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	N/A	Not present	7
Sample custody seals, if present, are intact.	N/A	Not Present	8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	N/A	Thermal preservation not required.	10
Cooler Temperature is acceptable.	True		11
Cooler Temperature is recorded.	N/A	Thermal preservation not required.	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		15
Is the Field Sampler's name present on COC?	True		16
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Post-Sampling Air Canister Pressure Check Record

¹ Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10" Hg, but have no specific criteria otherwise.

² If return pressure is not within criteria, initiate Non-Conformance Memo.

³ Record the ID of the EC used for sampling if information is provided, otherwise leave blank.

⁴ Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original EC Check was recorded.

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID		Max DF#	# Cycles	Cleaning Start Date/Time	System Start Temp(s)		Technician	Can Size	Certification Type:	
Port	Can ID	Initial (psia)	Final (psia)	Diff. ³	Final ("Hg)	Gauge:	Date:	Initial Reading	Final Reading	Batch
1	4810	0 - 0.1	.04	0	29.0	G26	6/21/2022	25.0	23.4	16/22/77
2	34001295					G26				22.0
3	5893					G26				
4	4473					G26				
5	4449					G26				
6	34000189					G26				
7	3286					G26				
8	3340					G26				
9	4797					G26				
10	3248					G26				
11	2597					G26				
12	4809					G26				

³ Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

PM Authorization

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: TO15 Routine TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level			Secondary Review			
				1	2	3	4	Limited	Review Date	Review
4809	6/21/22	5(39)	KP						6/24/22	MS

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Summa Canister 6L

200-63869-A-12

200-1627844

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington

Job No.: 200-63869-1

SDG No.:

Client Sample ID: 4809

Lab Sample ID: 200-63869-12

Matrix: Air

Lab File ID: 51397-05.D

Analysis Method: TO-15

Date Collected: 06/21/2022 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 06/23/2022 10:52

Soil Aliquot Vol:

Dilution Factor: 0.2

Soil Extract Vol.:

GC Column: RTX-624 ID: 0.32 (mm)

Purge Volume:

Heated Purge: (Y/N) pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 181050

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.10	U	0.10	0.10
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington

Job No.: 200-63869-1

SDG No.: _____

Client Sample ID: 4809

Lab Sample ID: 200-63869-12

Matrix: Air

Lab File ID: 51397-05.D

Analysis Method: TO-15

Date Collected: 06/21/2022 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 06/23/2022 10:52

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

Purge Volume: _____

Heated Purge: (Y/N) _____ pH: _____

% Moisture: _____ % Solids: _____

Level: (low/med) Low

Analysis Batch No.: 181050

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-63869-1
 SDG No.:
 Client Sample ID: 4809 Lab Sample ID: 200-63869-12
 Matrix: Air Lab File ID: 51397-05.D
 Analysis Method: TO-15 Date Collected: 06/21/2022 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/23/2022 10:52
 Soil Aliquot Vol.: Dilution Factor: 0.2
 Soil Extract Vol.: GC Column: RTX-624 ID: 0.32 (mm)
 Purge Volume: Heated Purge: (Y/N) pH:
 % Moisture: % Solids: Level: (low/med) Low
 Analysis Batch No.: 181050 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins Burlington
Target Compound Quantitation Report

Data File:	\chromfs\Burlington\ChromData\CHC.i\20220623-51397.b\51397-05.D		
Lims ID:	200-63869-A-12		
Client ID:	4809		
Sample Type:	Client		
Inject. Date:	23-Jun-2022 10:52:30	ALS Bottle#:	4
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0051397-005		
Misc. Info.:	63869-12		
Operator ID:	vtp	Instrument ID:	CHC.i
Method:	\chromfs\Burlington\ChromData\CHC.i\20220623-51397.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	24-Jun-2022 08:22:42	Calib Date:	17-Jun-2022 00:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\chromfs\Burlington\ChromData\CHC.i\20220616-51311.b\51311-14.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	CTX1639		

First Level Reviewer: bunmaa Date: 24-Jun-2022 08:22:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41	2.810				ND	7	
2 Dichlorodifluoromethane	85	2.869				ND	7	
3 Chlorodifluoromethane	51	2.906				ND	7	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.098				ND	7	
5 Chloromethane	50	3.205				ND	7	
6 Butane	43	3.392				ND	7	
7 Vinyl chloride	62	3.418				ND		
8 Butadiene	54	3.488				ND		
9 Bromomethane	94	4.070				ND		
10 Chloroethane	64	4.288				ND		
13 Vinyl bromide	106	4.651				ND		
14 Trichlorodifluoromethane	101	4.769				ND		
16 Ethanol	45	5.334				ND		
19 1,1,2-Trichloro-1,2,2-trifluoro	101	5.799				ND		
20 1,1-Dichloroethene	96	5.809				ND		
21 Acetone	43	6.018				ND	7	
22 Carbon disulfide	76	6.167				ND		
23 Isopropyl alcohol	45	6.396				ND		
24 3-Chloro-1-propene	41	6.546				ND	7	
26 Methylene Chloride	49	6.823				ND	MU	
28 2-Methyl-2-propanol	59	7.170				ND		
29 trans-1,2-Dichloroethene	61	7.282				ND		
30 Methyl tert-butyl ether	73	7.309				ND	7	
32 Hexane	57	7.725				ND		
33 1,1-Dichloroethane	63	8.104				ND		
34 Vinyl acetate	43	8.216				ND		
35 cis-1,2-Dichloroethene	96	9.188				ND		
36 2-Butanone (MEK)	72	9.246				ND		
37 Ethyl acetate	88	9.337				ND		
* 38 Chlorobromomethane	128	9.620	9.620	0.000	76	300003	20.0	
39 Tetrahydrofuran	42		9.705				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
40 Chloroform	83		9.780				ND	
41 1,1,1-Trichloroethane	97		10.047				ND	
42 Cyclohexane	84		10.068				ND	
S 43 1,2-Dichloroethene, Total	61		10.200				ND	7
44 Carbon tetrachloride	117		10.324				ND	
45 Benzene	78		10.735				ND	7
46 Isooctane	57		10.805				ND	
47 1,2-Dichloroethane	62		10.885				ND	
48 n-Heptane	43		11.205				ND	
* 49 1,4-Difluorobenzene	114	11.584	11.584	0.000	92	1733994	20.0	
50 Trichloroethene	95	12.080	12.080	0.026	1	478	0.009751	7M
53 1,2-Dichloropropane	63		12.545				ND	
56 Dibromomethane	174	12.806	12.806	0.011	53	1145	0.0197	M
55 Methyl methacrylate	69		12.801				ND	
57 1,4-Dioxane	88		12.854				ND	
58 Dichlorobromomethane	83		13.126				ND	
59 cis-1,3-Dichloropropene	75		14.087				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.423				ND	7
62 Toluene	92		14.701				ND	7
66 trans-1,3-Dichloropropene	75		15.293				ND	7
67 1,1,2-Trichloroethane	83		15.656				ND	
68 Tetrachloroethene	166	15.843	15.843	0.011	4	844	0.0100	7M
69 2-Hexanone	43		16.179				ND	
70 Chlorodibromomethane	129		16.425				ND	
71 Ethylene Dibromide	107		16.670				ND	
* 72 Chlorobenzene-d5	117	17.615	17.615	0.000	83	1837547	20.0	
73 Chlorobenzene	112		17.673				ND	7
74 Ethylbenzene	91		17.855				ND	7
76 m-Xylene & p-Xylene	106		18.111				ND	7
77 o-Xylene	106		18.938				ND	
78 Styrene	104		18.986				ND	
80 Bromoform	173		19.392				ND	7
81 Isopropylbenzene	105		19.691				ND	MU
S 82 Xylenes, Total	106		20.100				ND	7
83 1,1,2,2-Tetrachloroethane	83		20.390				ND	7
85 N-Propylbenzene	91		20.502				ND	7
86 2-Chlorotoluene	91		20.699				ND	7
87 4-Ethyltoluene	105		20.715				ND	7
89 1,3,5-Trimethylbenzene	105		20.833				ND	7
91 tert-Butylbenzene	119		21.361				ND	7
92 1,2,4-Trimethylbenzene	105		21.463				ND	7
93 sec-Butylbenzene	105		21.713				ND	7
95 1,3-Dichlorobenzene	146		21.932				ND	7
94 4-Isopropyltoluene	119		21.932				ND	7
96 1,4-Dichlorobenzene	146		22.071				ND	7
97 Benzyl chloride	91		22.263				ND	7
98 n-Butylbenzene	91		22.519				ND	7
100 1,2-Dichlorobenzene	146		22.599				ND	7
102 1,2,4-Trichlorobenzene	180		24.910				ND	7
103 Hexachlorobutadiene	225		25.118				ND	7
104 Naphthalene	128		25.310				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15CISs_00011

Amount Added: 40.00

Units: mL

Run Reagent

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Report Date: 24-Jun-2022 08:22:42

Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Burlington

Data File: \\chromfs\\Burlington\\ChromData\\CHC.i\\20220623-51397.b\\51397-05.D

Injection Date: 23-Jun-2022 10:52:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: 200-63869-A-12

Lab Sample ID: 200-63869-12

Worklist Smp#: 5

Client ID: 4809

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

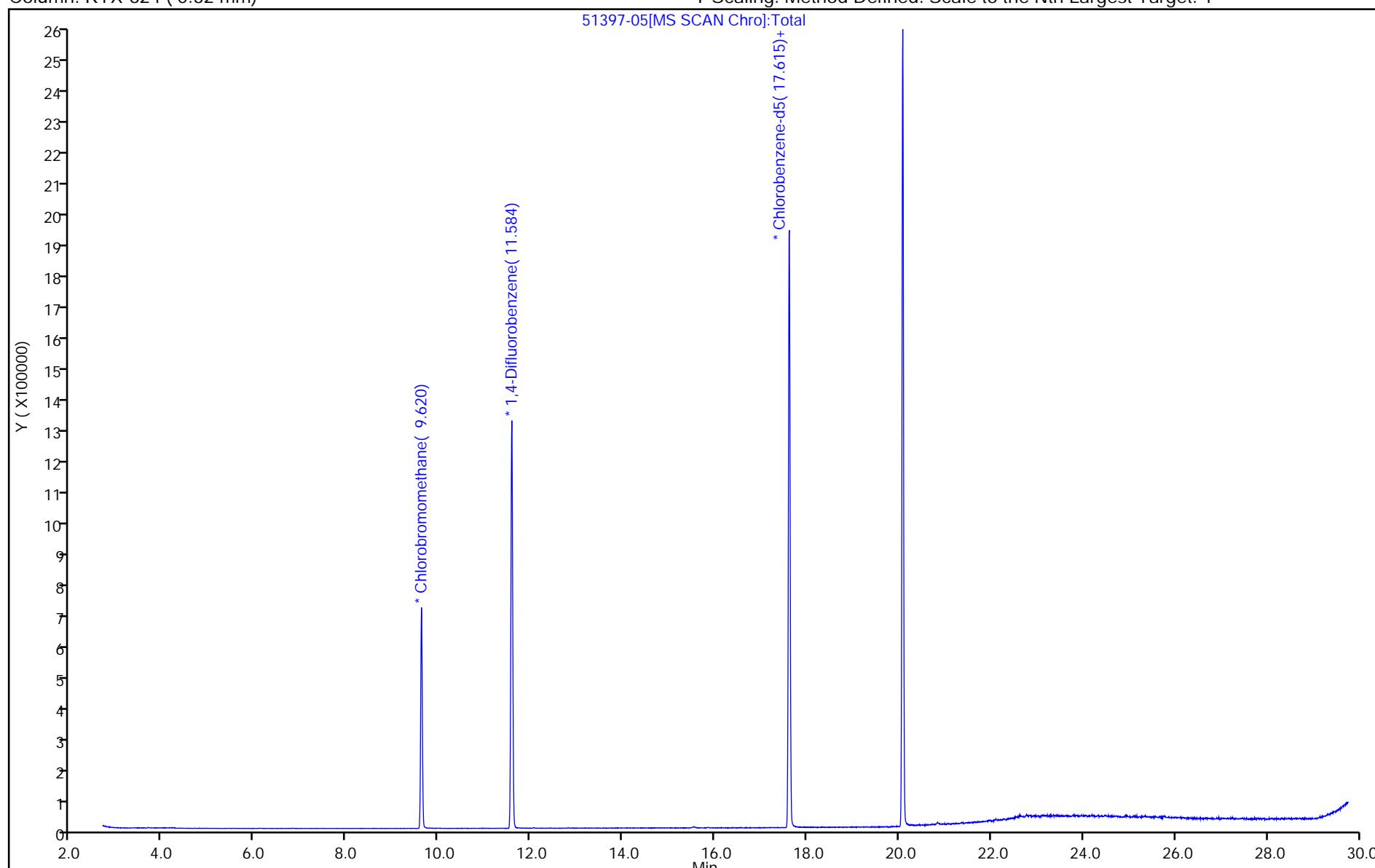
ALS Bottle#: 4

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

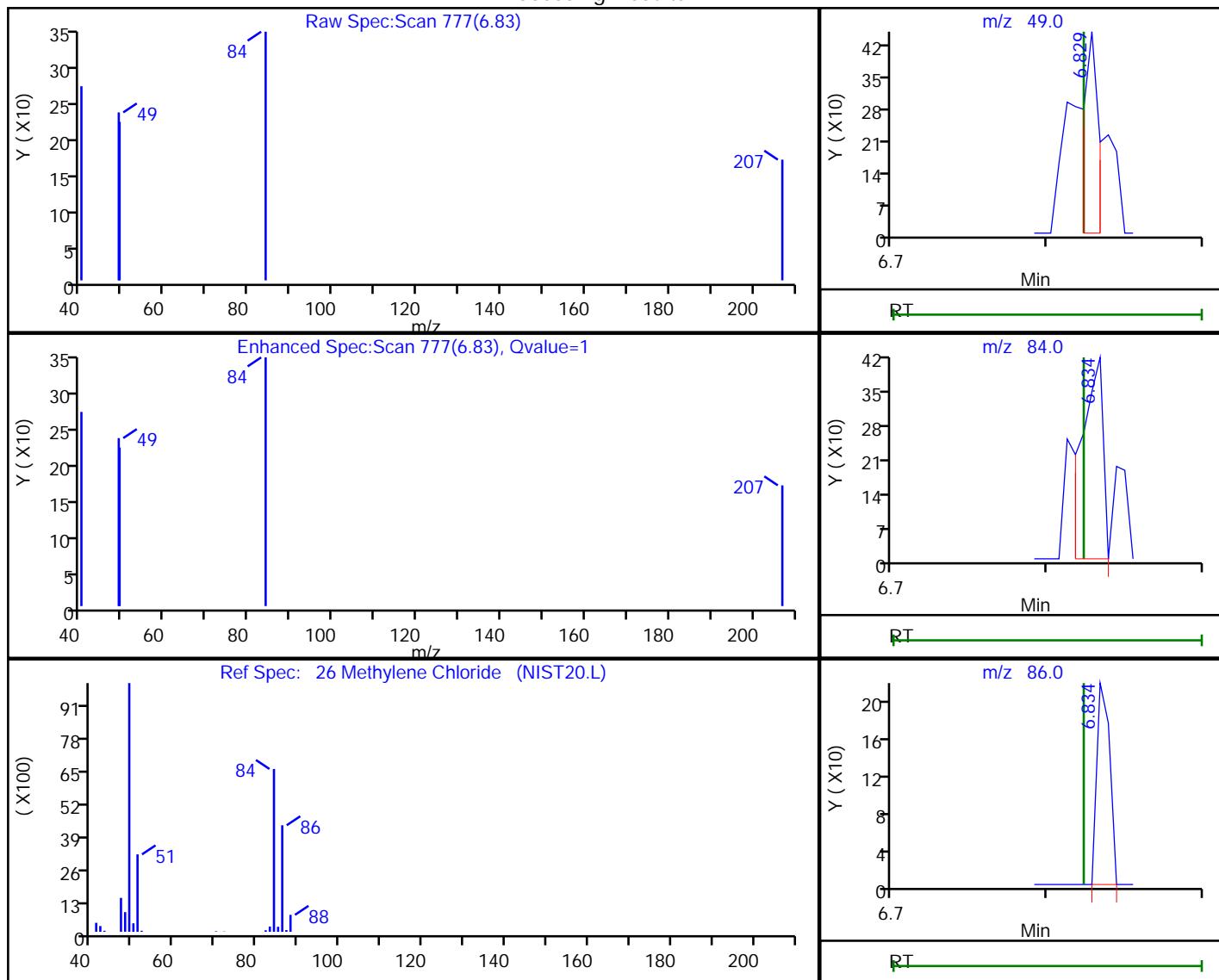


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

Eurofins Burlington
 Data File: \\chromfs\\Burlington\\ChromData\\CHC.i\\20220623-51397.b\\51397-05.D
 Injection Date: 23-Jun-2022 10:52:30 Instrument ID: CHC.i
 Lims ID: 200-63869-A-12 Lab Sample ID: 200-63869-12
 Client ID: 4809
 Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
6.83	49.00	297	0.015639
6.83	84.00	392	
6.83	86.00	122	

Reviewer: bunmaa, 24-Jun-2022 08:19:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

Eurofins Burlington

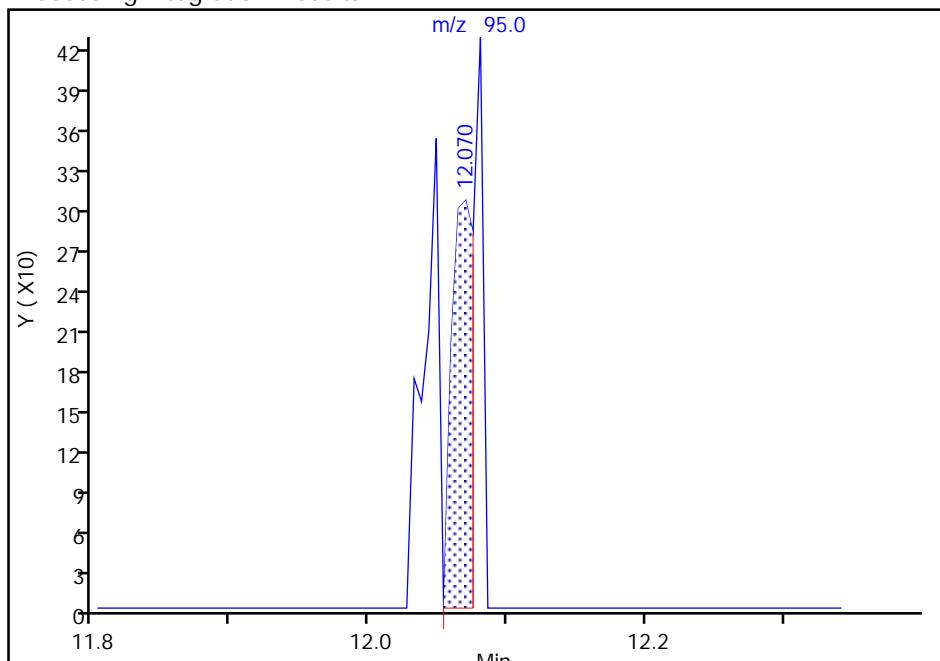
Data File: \\chromfs\\Burlington\\ChromData\\CHC.i\\20220623-51397.b\\51397-05.D
 Injection Date: 23-Jun-2022 10:52:30 Instrument ID: CHC.i
 Lims ID: 200-63869-A-12 Lab Sample ID: 200-63869-12
 Client ID: 4809
 Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

50 Trichloroethene, CAS: 79-01-6

Signal: 1

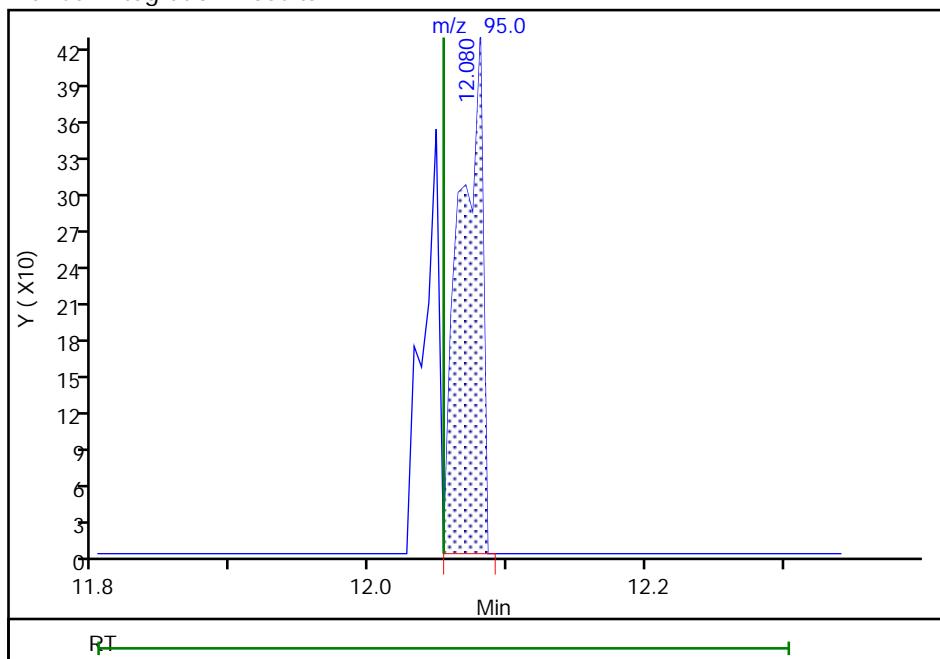
RT: 12.07
 Area: 343
 Amount: 0.006997
 Amount Units: ppb v/v

Processing Integration Results



RT: 12.08
 Area: 478
 Amount: 0.009751
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 24-Jun-2022 08:20:05

Audit Action: Manually Integrated

Audit Reason: Assign Peak

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

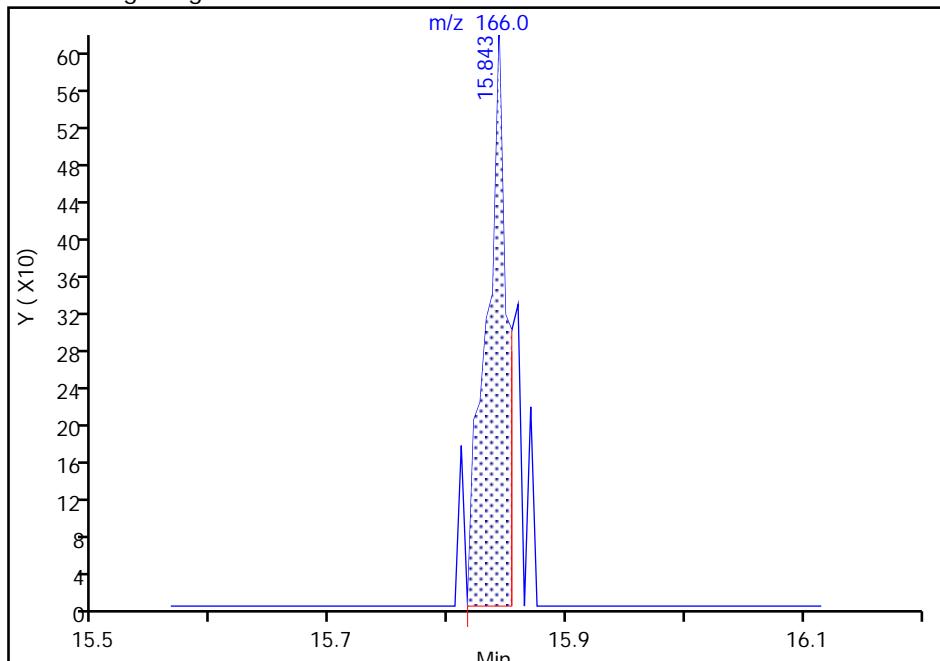
Data File: \\chromfs\\Burlington\\ChromData\\CHC.i\\20220623-51397.b\\51397-05.D
 Injection Date: 23-Jun-2022 10:52:30 Instrument ID: CHC.i
 Lims ID: 200-63869-A-12 Lab Sample ID: 200-63869-12
 Client ID: 4809
 Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4

Signal: 1

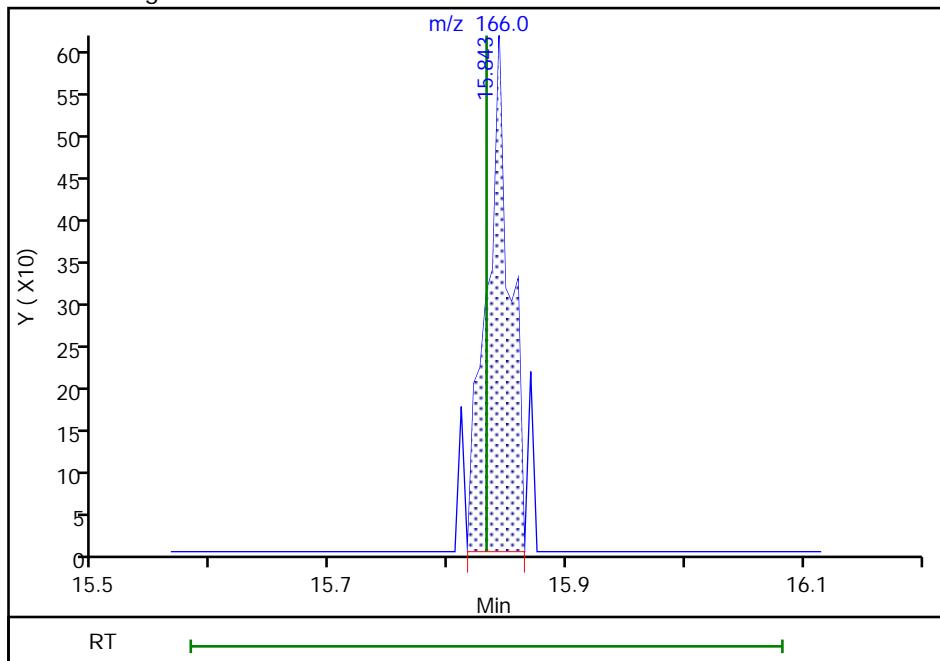
RT: 15.84
 Area: 739
 Amount: 0.008740
 Amount Units: ppb v/v

Processing Integration Results



RT: 15.84
 Area: 844
 Amount: 0.009982
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 24-Jun-2022 08:21:08

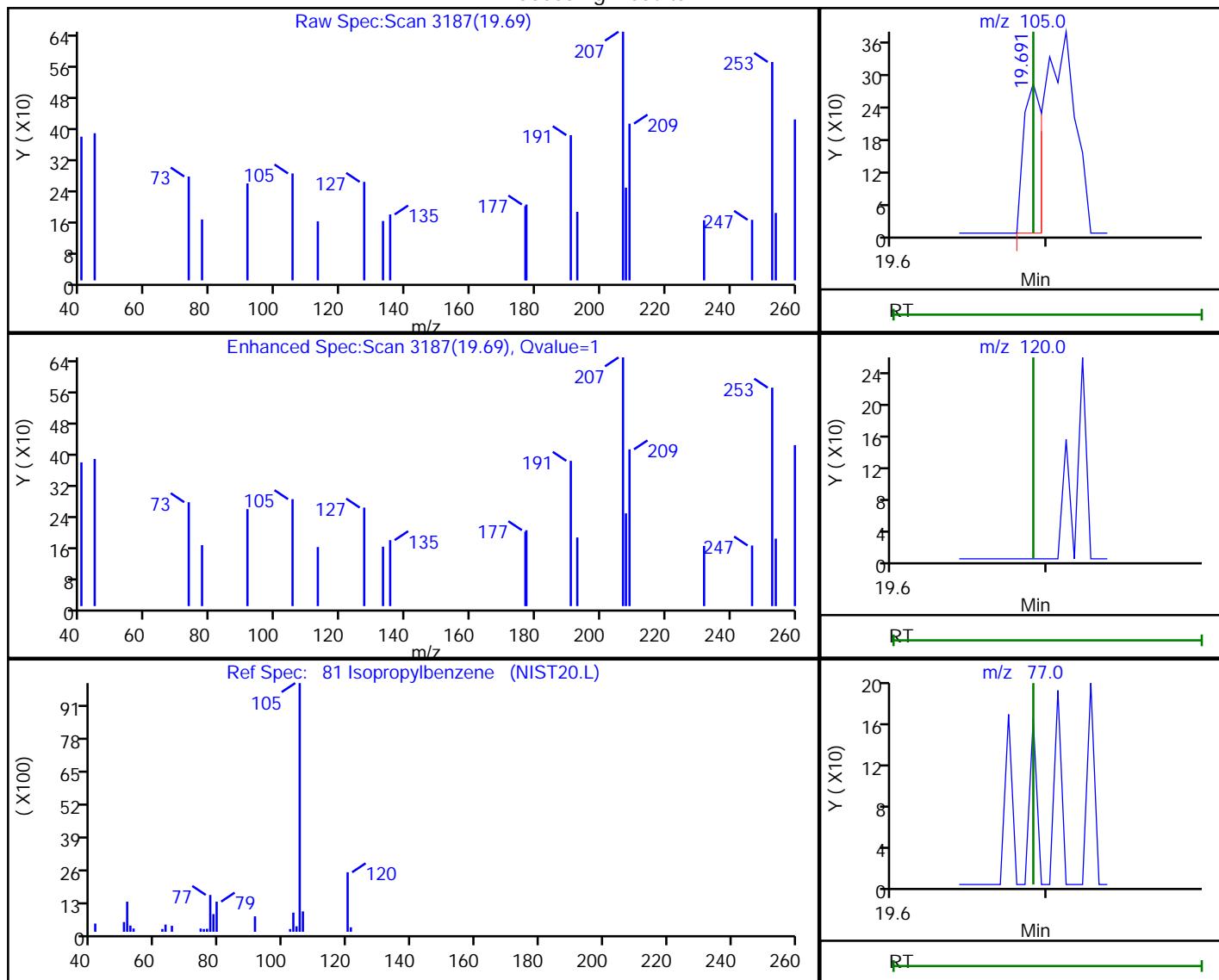
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Data File: \\chromfs\\Burlington\\ChromData\\CHC.i\\20220623-51397.b\\51397-05.D
 Injection Date: 23-Jun-2022 10:52:30 Instrument ID: CHC.i
 Lims ID: 200-63869-A-12 Lab Sample ID: 200-63869-12
 Client ID: 4809
 Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

81 Isopropylbenzene, CAS: 98-82-8

Processing Results



RT	Mass	Response	Amount
19.69	105.00	233	0.001015
19.69	120.00	0	
19.69	77.00	0	

Reviewer: bunmaa, 24-Jun-2022 08:21:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID